

# INTERNSHIP REPORT 2015



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by Chalmers  
students

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companies  
supporting  
USA SIP

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# USA SUMMER INTERNSHIP PROGRAM 2015

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Sanna Blomqvist, Editor USA SIP 2015

## EDITORIAL

“Do you want to be a part of USA Summer Internship Program 2015?”

This question was the entrance ticket to a fantastic adventure for me.

“Of course!” I said, since this answer would make me the editor of the board of USA SIP 2015. And now I am here, working on the Internship Report, with a thrilling feeling of soon having the result of so many hours of work in my hands.

Being a part of USA SIP is by far the most exciting, developing and fun thing I have ever done and the best year I have had at Chalmers University of Technology. When I said yes to this opportunity I did not know what I was getting myself into, else than hopefully end up with an internship in North America. Looking back on this journey I realize that this has given me so much more than just an internship. To get to do this with friends and with people who are as motivated as you are is truly an amazing experience. From day one we knew that it would take lots of hours of hard work and commitment to have 25 people starting an internship on the other side of the Atlantic Ocean the summer of 2015. From where I am writing now, from my internship at

Rema Tip Top in Northvale, I am glad to say that we managed to complete this task in a way that exceeded all of our expectations and in a way that we should be proud of. I could not even imagine how fun this would be when I said yes to be a part of USA SIP last year.

So let me introduce you to the Internship Report that is now in your hands. It will hopefully give you lots of inspiring stories from all the interns, interesting articles from current leaders and also ads from our supporting companies. I hope you will enjoy it and that it shows all the joy and pride we feel about being a part of USA SIP with its fine history and chance-of-a-lifetime-internships in North America.

Lastly, I want to thank my friends in the USA SIP board for being such an amazing team and to the members of USA SIP for all their commitment and joy during the year. I also want to thank the supporting organizations and companies who have sponsored us in one way or another.

Thank you and enjoy!  
Sanna

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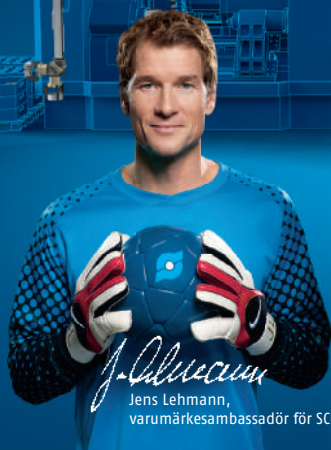
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# ABOUT THE PROGRAM

## USA SUMMER INTERNSHIP PROGRAM

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*We have now passed fifty years since USA Summer Internship Program at Chalmers University of Technology started. Much has changed since 1963, but the experiences gained from an internship in North America remain as valuable today. Hence, the goal of the program is to continue to give students the chance to acquire work experience within their specific field of education and also memories for a lifetime.*



It is by Chalmers recommended for students to get at least 17 weeks of industrial training before graduation. By working as interns in North America, the students of the USA SIP will be able to complete a great portion of that time. Even more valuable might be experiences gained by working in an international environment. It promotes the opportunity to improve the students' ability in communicating in another language while developing professional skills within their field of engineering. Last but not least they also contribute to maintaining important relations between different cultures and countries.

In the summer of 2015 the members of the USA SIP started working for companies in the US and Canada. The duration of the internships stretch from eight weeks to a year. The hosting companies vary greatly in size and area of business and the work assignments also vary depending on the interns' field of study and the current situation at the hosting company. Read the students' reports in following pages for more details about their internships and experiences in North America.

The organization consists of 25

students of which 19 are members and six board members. The board of the program is responsible for the overall management of the organization in addition to the specific tasks for each position.

The *chairman* has the overall responsibility for the program and also handles the Visa application process. The *treasurer* is responsible for the bookkeeping and finances. The *internship coordinators* contact host firms in America and arrange interviews between the parties. The *sales manager* arranges and organizes the members' sales of advertisements. The *editor* is responsible for the website, creating posters and to design and produce this annual Internship Report.

The members are required to contribute by selling advertisements in this Internship Report. By this the members learn how to establish and maintain professional contacts with company representatives and also practice their selling skills.

All in all, we, the members and board members of the USA SIP 2015, are very grateful for having this opportunity and we would like to extend our gratitude to the companies and organizations that have made this possible.

We hope this Internship Report will inspire and encourage other students to aim for internships abroad and that You also want to become a part of our team!

*Sincerely,*

USA Summer Internship Program  
2015

### How to apply

Students from AT, Bt, K, Kf, I, M, TD, V and Z at Chalmers University of Technology who will have at least 150 credits before traveling to the U.S can apply.

Please visit our website  
[www.usa-chalmers.se](http://www.usa-chalmers.se) or contact  
[info@usa-chalmers.se](mailto:info@usa-chalmers.se) for more  
information.

### How to support the organization

Do you want your company's name in this magazine or on the website?

Do not hesitate to be a part of our journey and to show your company to the students of Chalmers University of Technology and other Swedish universities.

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# VOICES OF SUPPORT

## FROM CURRENT LEADERS

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Jan Gurander  
*Acting President and CEO Volvo Group*

**Volvo Group** is one of the world's leading producers of trucks, buses, heavy equipment and marine and industrial engines. We provide complete financial services as well. Volvo Group employs about 100 000 people world wide, with production sites in 19 countries, and sales of products with 12 different brands in over 190 markets. Volvo group is listed on Nasdaq Stockholm and had sales for approximately 283,000 MSEK in the year of 2014.

If you are open minded about roaming freely between different roles, duties and businesses, there are many interesting opportunities for development at Volvo Group. We prefer that our employees conduct their own career planning and that they always strive for development by taking on new challenges.

Other important aspects are the possibility to work in cross-functional projects, job rotation, and international experiences.

The freedom of choice also includes the opportunity to choose between different career paths – expert, project manager or leader – and the possibility to change between these career paths. It is therefore natural for us to support USA Summer Internship Program. The program creates opportunities to gain important experiences.



Jan-Olof Jacke  
*CEO AstraZeneca*

**AstraZeneca** is a global, innovation-driven biopharmaceutical business that focuses on the discovery, development and commercialisation of prescription medicines, primarily for the treatment of cardiovascular, metabolic, respiratory, inflammation, autoimmune, oncology, infection and neuroscience diseases. AstraZeneca operates in over 100 countries and our innovative medicines are used by millions of patients worldwide.

Research is the key to the success of AstraZeneca and in 2014 the company spent 4.94 billion USD on research and development. AstraZeneca has sales in more than 100 countries, manufactures in 16 countries and employs some 57 500 people worldwide, of which 9 000 work in R&D.

AstraZeneca aspires to become one of the best and most respected pharmaceutical companies in the world. Skilled and enthusiastic employees with international experience are essential to achieve this and therefore we fully support the USA Summer Internship Program 2015.



**Want to study in a creative and innovative environment where academy, public organisations, industry and entrepreneurs come together?**

In Gothenburg, situated in one of the most innovative areas in the world, we have created a learning environment where students are allowed and encouraged to try their ideas in reality. In addition to providing a cutting edge academic education, we provide our students with the possibility to work closely with both academic researchers, public organisations, innovators and industry and to try their wings in both established companies and as startup entrepreneurs.

Our four master's programmes within Technology Management and Economics offer a combination of solid theoretic frameworks, applied projects and strong connection to business and industry – a combination that ensures a rapid learning curve and exciting job opportunities after graduation.

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- Management and Economics of Innovation
- Quality and Operations Management
- Supply Chain Management

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Department of Technology Management and Economics  
[www.chalmers.se/tme](http://www.chalmers.se/tme)





**“Engineers often become generalists, but this gives me the opportunity to be really competent, perhaps among the best in the world, in a specific topic”**

**Hello there, Björn Söderberg, doctoral student at the Department of Technology Management and Economics! Why did you apply for a doctoral student position?**

– It was mainly my interest in the subject I was working on in my Master's thesis *Lean product development*. But it was also an opportunity to contribute to creating new knowledge of benefit to companies and research. The Department of Technology Management and economics also involves research linked to specific companies, which means that you visit a lot of companies and build up a good network which will be valuable in the future.

**What does a doctoral student actually do?**

– You carry out research work 60 % of the time, attend doctoral courses 20 % and teach for 20 %. Above all you contribute to increasing knowledge about how to create better organisations.

**Describe your typical working day!**

– It's hard to describe, as no day is quite like any other. One day I might teach, another I might go to a research conference in Cambridge or write articles for a research journal. I may attend network meetings together with a number of companies who are interested in my topic, or I may be out in the field visiting companies and studying how they work in order to draw conclusions about how they can improve their way of working.

**How does your everyday routine differ from that of a regular university student?**

– It's a much more independent way of working. You make your own plans and are responsible for ensuring that you reach the goal of your doctorate. You really get to dig deep into a topic that interests you, and are free to continue learning about the most fascinating subjects from your student years. And you will be well paid for it.

*This is an ad from the Department of Technology Management and Economics.*

*Visit our website to find out more about our education and how to apply: [www.chalmers.se/en/education](http://www.chalmers.se/en/education)*

**CHALMERS**

Department of Technology Management and Economics  
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# THE YEAR IN BRIEF FOR USA SIP 2015

## MAY 2014

The members of USA SIP 2015 was elected and the organization was formed. It was the start of a year of hard work and fun events which resulted in internships in North America



## SEPTEMBER 2014

Kick-off in Stockholm during three days. The members visited companies and sold ads and lunch lectures. In the evenings we had the chance to hang out and get to know each other.

## OCTOBER 2014

Dinner and volleyball playing as one of our events during the year. We also arranged evenings with dinner and sauna among other things.



## NOVEMBER 2014

Celebrating Thanksgiving with the whole group to prepare for our stay in the US and Canada. We made turkey, mashed potatoes and to dessert we had pumpkin pie.

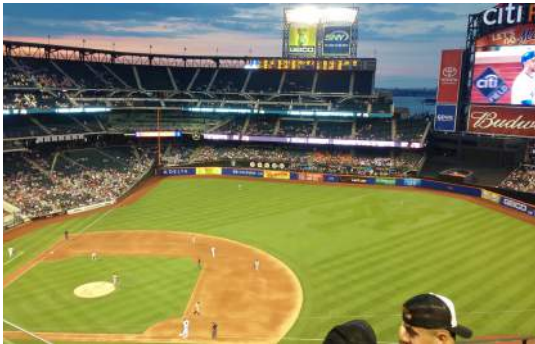
## MARCH 2015

During spring everyone in USA SIP 2015 had got an internship in North America and we started with the Visa Application Process with help from The American-Scandinavian Foundation.



## JUNE 2015

On June, 7 we finally arrived in New York for four days of introduction and seightseeing. We went to a baseball game between New York Mets and San Francisco Giants.



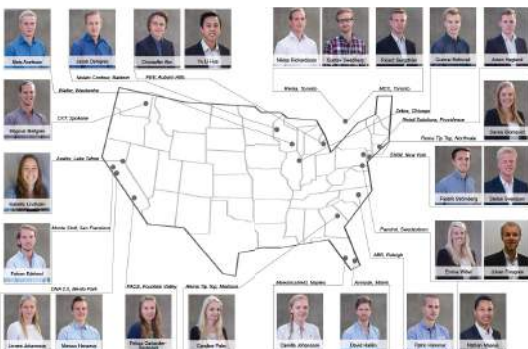
## JUNE 2015

USA SIP 2015 together with the Director of Internship and Training Program, Tatiana Pashman, outside the American-Scandinavian Foundation office in New York City.



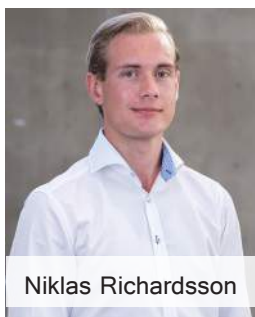
## JUNE 2015

On June 11th everyone went to different places in the US and Canada to start their internships and gain memories and experience for a lifetime.



# INTERNSHIP PLACEMENTS





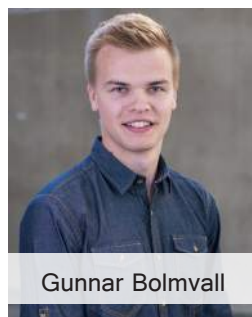
Niklas Richardsson



Gustav Swedberg



Ricard Bergström



Gunnar Bolmvall



Anton Haglund



*Prema, Toronto*

*MCC, Toronto*

*Zebra, Chicago*

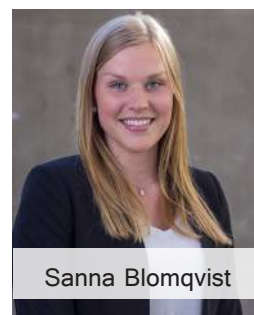
*Retail Solutions, Providence*

*Rema Tip Top, Northvale*

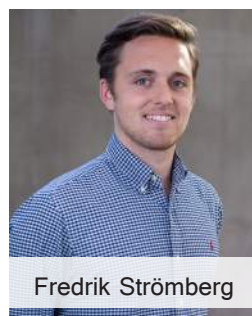
*SKIM, New York*

*Pandrol, Swedesboro*

*ABB, Raleigh*



Sanna Blomqvist



Fredrik Strömberg



Stefan Svensson



Emma Wibel



Johan Forsgren

*Maestroschild, Naples*

*Avinode, Miami*



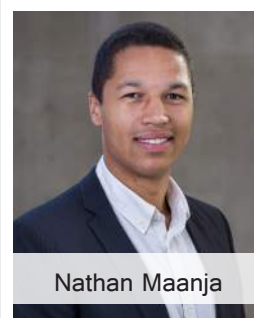
Camilla Johansson



David Hallén



Patric Hammar

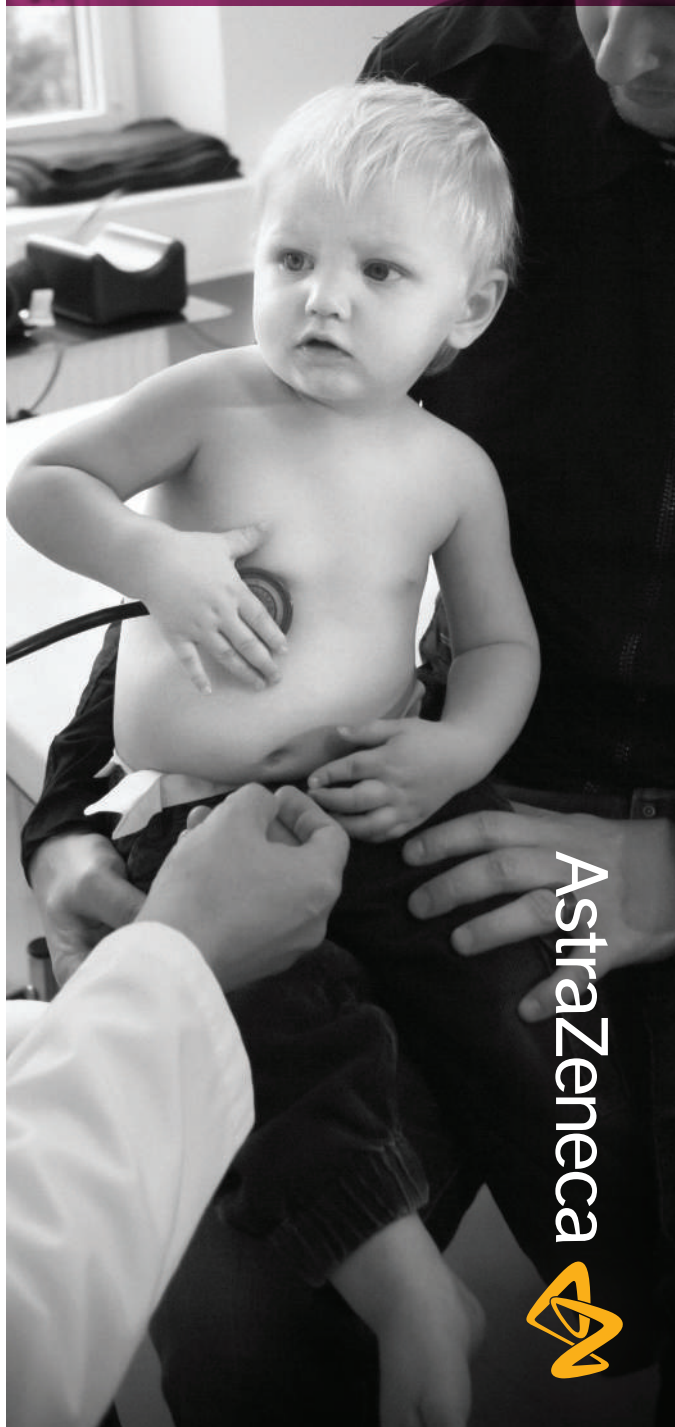


Nathan Maanja

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handlar om  
det viktigaste  
som finns.

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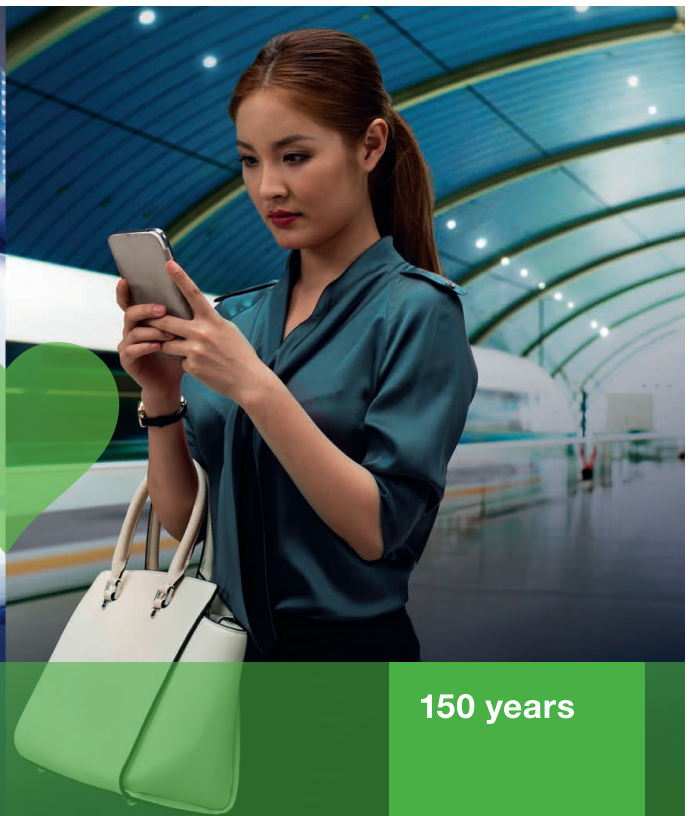
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# LEIF JOHANSSON

CHAIRMAN OF THE BOARD, ERICSSON AND ASTRA ZENECA

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## “...DO THE THINGS THAT EMERGE ALONG THE WAY”

*Leif Johansson is one of the more notable persons graduating from Chalmers University of Technology. Since his Chalmers days he has led some of Sweden's largest companies. Under his leadership, the Volvo Group grew significantly, both in terms of turnover, size and number of employees. Today, Leif is the Chairman of both AstraZeneca and Ericsson.*

Leif Johansson was born in the coastal city of Gothenburg 1951. After spending time in the United States as an exchange student, and afterwards doing military service in Sweden, Leif decided to pursue a degree in Mechanical Engineering at Chalmers University of Technology in Gothenburg. Describing himself as a curious person by nature, it is not that hard to see why engineering attracted him. The interest for mechanical engineering was developed as a child, when Leif, whose father was the CEO of the global company SKF, spent much time in the SKF factory.

During the study period at Chalmers, as well as the rest of his life, Leif describes himself as being a restless person. As a student at Chalmers he was involved in numerous Chalmers activities and associations. Looking back, Leif believes that the involvement helped him develop both as a person and as an engineer. Developing is something he values highly; “I try to put myself in situations where it is required of me to learn more” he says.

As a board member of the USA SIP, back then called the USA Committee, Leif was responsible of the payments and economy of the organization, as well as making sure everyone actually got a job across the Atlantic Ocean. Bear in mind

that this was in the 70's, meaning that communication mainly was done through fax, letters and expensive phone calls. Through the USA SIP Leif got the opportunity to do an internship at an American lathe company called Bullard. The job required considerable technology cunning and knowledge about supply chains and Leif had to learn about how the complex value chain worked. Leif is confident that the internship gave him workshop experience that came to be useful in the future.

Leif believes that nowadays the need of international experience is greater than ever, simply because the majority of the big companies are operating in globalized markets. “Globalization is great. The world is much more international now, I mean; when I was younger we had the Iron Curtain, you weren't allowed to travel to China. The world has opened up and is now available for companies and people who want to travel and work abroad. I think that it is important to be comfortable in an

international world, know a few different languages, and not be prejudicial. Being narrow-minded won't lead to a long-lived career in any big company. My opinion is that this is the way for global peace; it won't be easy to demonize and to start wars if the world's countries are dependent of each other”, he says. “After graduating from Chalmers, I got a job at a small firm. My task was to see if there were any undiscovered markets in exotic countries. So I ended up in countries in the Eastern-Block, like Poland. That might not sound like a big thing for your generation, but back then Poland was quite closed and almost exotic for us.”

A piece of advice Leif would like give to all students is to seize the opportunities. “Don't think too long, and try to do the things that emerge along the way. It might not be easy at the time, but it will most definitely not be easier as you get older.”

*Text by Amra Subasic and Ylldrin Halili*



Leif Johansson and Ylldrin Halili (Board member of USA SIP 2014)

## CROSSING BORDERS TO ACHIEVE SUCCESS

*Today international experience is of vital importance for highly qualified engineers. As a student at Chalmers University of Technology you have an excellent opportunity to earn this experience already within your education.*

Chalmers is an outward looking university focusing on the development of technical solutions needed to create tomorrow's sustainable society. This is achieved by letting environmental questions permeate research as well as teaching. A successful outcome also depends on a well functioning interplay between many different participants within and outside Chalmers. Our interplay and exchange with industry and business take many forms – internships, projects, work integrated learning to name a few.

Regardless how, it's important to seek solutions across and beyond your boundaries to challenge yourself and others. This viewpoint has in one sense or another characterized Chalmers for centuries, inspired by our founder, William Chalmers. As director of the Swedish East India Company, and for several years their resident representative in China, he recognized the importance of crossing borders to achieve success.

In order to promote our students' opportunities to take part in knowledge and experience exchange we continuously develop different activities and encourage students to participate in wide variety of international activities. Chalmers students adopt this strategy in the most different ways. Some partic-

ipate in international seminars; others spend some time abroad in a company or a university. Still others participate in, or even set up, international projects with or without support from industry.

Networks around the world is of great interest and use in all research activities, and of outmost importance when it comes to global issues.

In your future role as highly qualified engineers you will be an important part in all forward looking research. Therefore any experience of various cultures, settings and ways of thinking is of great value.

“... he recognized the importance of crossing borders to achieve success “

To spend some time in a company in the USA for a few months is in my opinion an excellent way of achieving an international experience and a great complement to your education. A network you build during such a stay is invaluable for the future – professionally as well as in your private life.

Karin Markides  
President of Chalmers



Karin Markides



## Södra Sveriges ledande teknikföretag inom bilindustrin

**BorgWarner i Landskrona** utvecklar innovativa AWD-produkter (All-Wheel Drive) med en god laganda. Med högt i tak och global spridning kan BorgWarner erbjuda en dynamisk vardag och spännande utvecklingsmöjligheter. På anläggningen i Landskrona finns både tillverkning och utveckling av system för fyrhjulsdraft, som idag serietillverkas till ett flertal bilmodeller från bl.a. Volkswagen, Volvo, Land Rover, Porsche och Lamborghini. BorgWarner har tack vare sina produkters unika egenskaper uppnått en position som en av världens ledande leverantörer av system för avancerad fyrhjulsdraft.

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# CHAIRMAN OF USA SIP 2015

ANTON HAGLUND

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## TO THE U.S. WITH FRIENDS

*As I began to write this letter, I realized how quickly the time has passed since we started the USA Summer Internship Program 2015. It has been a year filled with many rewarding moments and valuable experiences, as well as some challenges.*

I feel honored to have had the opportunity to be a part of this organization that has brought students from Chalmers University of Technology to the North America since 1963. I am convinced that everyone that has participated in this program during the last year has gained experience that will last a lifetime. Not only from their time in North America, but also from the ef-

forts required to finally getting here. It is now time for a short review, and last but not least, it is time to thank everyone that has contributed to USA Summer Internship Program 2015. Without your help, we would not have been able to cross the Atlantic Ocean.

The USA Summer Internship Program was originally founded to encourage a

cultural- and technical exchange between Sweden and North America. Today, 52 years later, it carries on as an appreciated supplement to the education at Chalmers University of Technology. To finance some of the internship expenses our members raise money from Swedish companies, who believes in the value of international experience that an internship provides the members.



The journey began in the spring of 2014 when the group gathered for the first time, with a common goal to go to the U.S. The fundraising campaign started when we in the end of the summer went to Stockholm, the capital of Sweden. During our stay, we became to know each other and new friendships were made. The members supported each other the overcome the nervousness of sales calls and company meetings and the first contracts were signed with some of the supporting companies.

In the late spring of 2015 we had finally raised enough money, everyone had a signed internship in the North America and we had all applied for our visas. We had faced challenges along the year but overcame them together. It was with a great relief that we took the train back home from Stockholm, where we had visited the U.S. Embassy to do the final steps in the visa process. We were finally ready to take off overseas for what was sure to be an amazing time in all of our lives.

We left Sweden in early June for a couple of days in New York City where we visited the American Scandinavian Foundation. After a seminar about the working life and the cultural differences we were finally as prepared that we could be for our internships.

We spent the rest of the week exploring the Big Apple and had an amazing stay. To start this big adventure together, before continuing to respective location, was something that I believe everyone

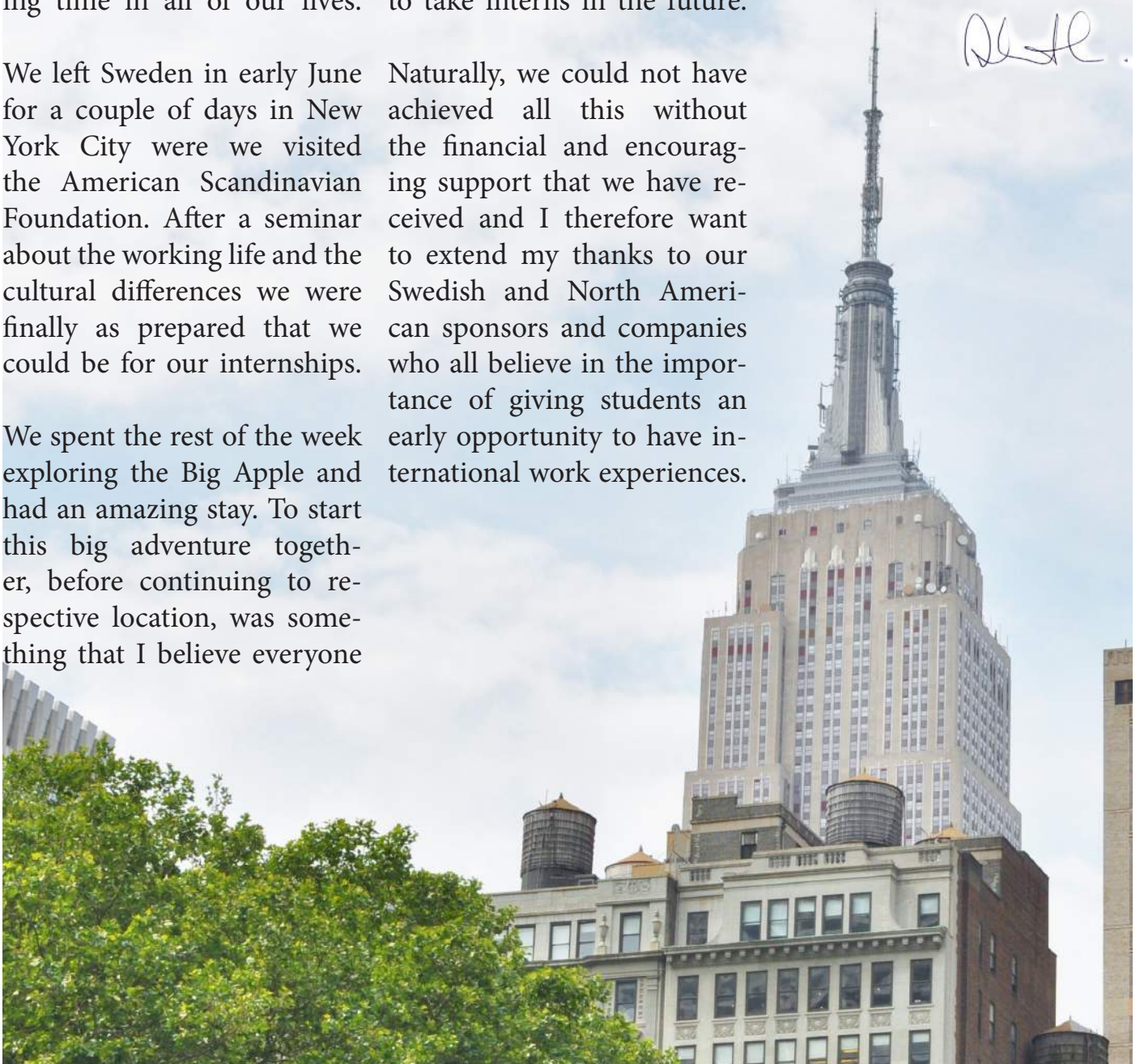
appreciated and we could finally celebrate that we made it the whole way to the U.S.

I want to thank the members and the board of USA Summer Internship Program 2015 for all the hard work and great commitment that everyone has put in during the year. Our internship coordinators have done an outstanding job finding internships to all the members and have established a lot of new contacts that hopefully will continue to take interns in the future.

Naturally, we could not have achieved all this without the financial and encouraging support that we have received and I therefore want to extend my thanks to our Swedish and North American sponsors and companies who all believe in the importance of giving students an early opportunity to have international work experiences.

The invaluable investment made in these future employees will never be forgotten and the knowledge gained from their abroad experiences will be brought back home. Your continuous support and participation is essential for our program and we look forward to many years of continued partnership.

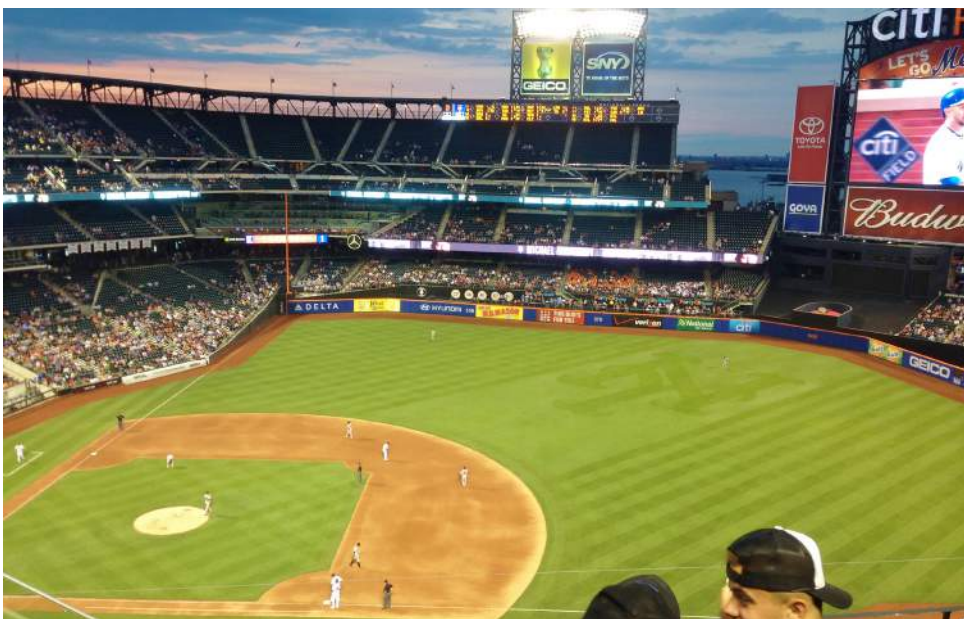
Thank you!  
Anton Haglund





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## Department of CHEMISTRY AND CHEMICAL ENGINEERING



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This is about our lives and natural resources, about energy, materials recycling and materials development. This is about you; the pasta you boil, the medicines you might take, the fire alarm you dump at the tip, the catalytic converter on your car. About the forests, the sun, minerals and gases, about packaging and implants – chemistry is everywhere! It's about the future!

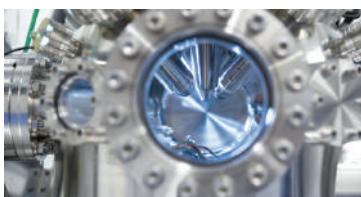
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### EDUCATION

Everywhere chemistry and chemical engineering have major challenges to solve and there's a lot to do in the health, energy and environmental issues, to name some. You need to have an interest in life's smallest components and a great deal of curiosity and that you always continue to ask the question - is there a better way?

The department offers four Bachelor's programmes (in Swedish) and three Master's programmes (in English)



### RESEARCH

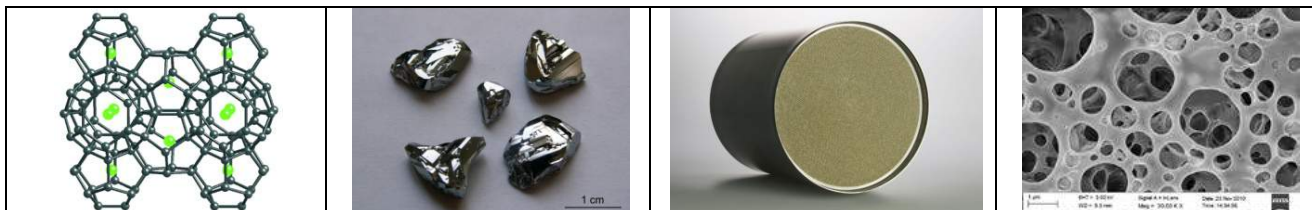
With nearly 400 research projects, we want to make a difference. Our department is characterized by stimulation of world leading research, in an environment where people develop and create new knowledge.

Our research projects are often interdisciplinary and in close cooperation with industry, institutes and other higher education institutions. The department hosts a number of centers of excellence and many of our researchers participate in projects within Chalmers Areas of Advanced.

[www.chalmers.se/chem](http://www.chalmers.se/chem)

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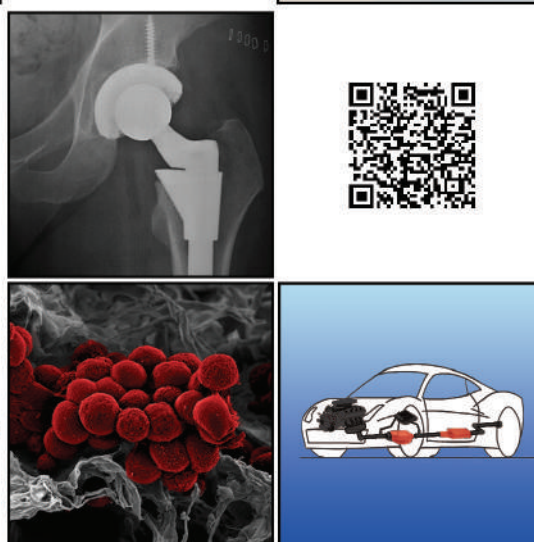
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- Nanomaterials
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- Biomaterials
- 3D(bio)-printing
- Biopolymer technology
- Thermoelectric materials

**Within our Division we offer a variety of Master's projects**

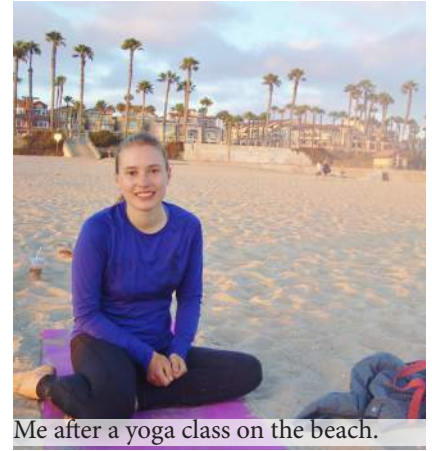
**Active in Chalmers' Areas of Advance:  
Materials, Nano, Energy, Transport and Life**



# Water Engineering in the State Without Rain



Preparing for a hike to the Hollywood sign!



Me after a yoga class on the beach.

**FELICIA CARLANDER REUTERFELT** *Slightly uncertain of what to expect from my time in Southern California, my internship at PACE, the climate and nice people turned out to greatly exceed my expectations. After having spent just over a month in SoCal I am already happily spoiled with challenging work assignments, wonderful weather and delicious food.*

After an eight-hour flight I arrived at Los Angeles International airport on a Thursday morning. The following Monday I would start my internship at PACE, Pacific Advanced Water Engineering - a civil engineering firm specialized in advanced water engineering. First priority was to find somewhere to live and some means of transportation. Not really knowing what to expect, these two things along with the weather and seemingly never ending options of food was only a few things that I learned more about once I arrived to Southern California.

I arranged housing for the first three nights via the website Airbnb.com. To my own great surprise I managed to find permanent housing within a day from my arrival in Orange County and I was lucky enough to get to choose from two (at least – I stopped looking after I found them) very nice sublets. I ended up renting a room in a house with four other people located not more than a mile from my office. Not counting the decision to come here to the United States in the first place, that was probably one of the best decisions I have made so far during my stay here!

Another surprise and cultural difference was that of transportation. Living in a rather suburban area the roads, highways and freeways are (judging by Swedish standards) enormous while the public transportation is close to nonexistent.

After a week with a rental car I decided to purchase a road bike for the every-day travelling and commuting. Possibly not the most common vehicle in California but with such agreeable climate, this solution has worked quite well in the area for my commutes to evening beach yoga classes as well as shopping trips to the grocery store.

“Surf, ski and desert driving in the same day?”

Surf, ski and desert driving in the same day? Yeah, it's possible if you live in Southern California! Even though I've never tried it myself (yet), it was something I heard many times when I first came here to Fountain Valley. Regardless, the weather and sunshine here in SoCal is really something easy to get accustomed to!

Besides the absence of rain, the fact that there is a drought here is nothing that



Me surveying on a site in Mission Viejo.



## PACE

affects the everyday life very much (even though in the long run it would).

Environment and water is however something that is very important at PACE, the company and the reason for me being here. After a warm welcome and an office tour on my first day at work, I was over time thoroughly introduced to all different kinds of work in the different divisions at PACE: Environmental Water, Recreational Water as well as Storm Water. The assignments given to me and the other two civil engineering interns (as well as the electrical engineering intern) have been very versatile. With tasks ranging from site visits and surveys in Orange County and beyond, soil sampling, hydraulic calculations, pump sizing, drawing verification, research and AutoCAD redlining I have learned as much as I could possibly hope for about engineering work in practice from an internship.

The atmosphere at work has been very pleasant thanks to friendly and helpful colleagues. Besides the nice work environment itself, there are also a lot of activities to further motivate and make the employees feel good: Wednesday evening yoga and casual Fridays (with office breakfast served) is only to mention a few. After having spent just over a month in SoCal I can honestly say that there is no other place where I would rather do my internship!

### **BEST MEMORY**

Finding a place to live only a day after arrival in Orange County!

### **WORST MEMORY**

Setting off the alarm at the office one early morning before going out in the field for a survey.

### **PACE**

Founded: 1987

Employees: 60

Area of business: Civil engineering with specialization in water engineering

Hosting Interns since: 2015

Website: [www.pacewater.com](http://www.pacewater.com)

### **FELICIA CARLANDER-REUTERFELT**

Born: 1992 in Gothenburg, Sweden

Present education: B.Sc. in Civil Engineering

Future plans: Finish my internship and then work and travel before starting my masters.

# nomo

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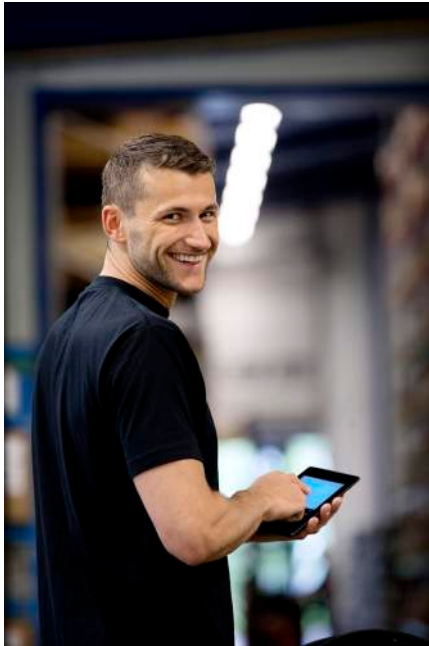
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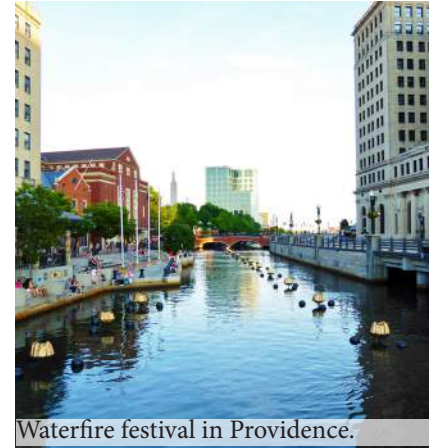
# PROSPERO

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Me on a trip to the beautiful Block Island.



Waterfire festival in Providence.

*I am grateful to experience the natural beauty of New England and the culture of Providence. With only three months to visit, every weekend is a new adventure thanks to a lively, diverse culture and interesting history. It is located one hour to Boston and three hours from NYC. It is a fairly small city that welcomes entrepreneurs, and that suits me perfectly.*

**A**fter a week in New York City, the city that never sleeps, Providence felt kind of sleepy. But after a few days, I realized that I was mistaken. The first few days, I walked around exploring the city that was going to be my home for the summer. As it happened, the Waterfire festival occurred the day after my arrival. It is a spectacular celebration on the city's canal where they light bonfires along with live music, street artists, great food and live entertainment. I couldn't have had a better welcome.

**N**Here in Providence, I am interning at Retail Solutions Inc. (RSi). RSi is a global provider of Big Data predictive analytics of consumer products goods. It was founded in 2003 and has since then had a steady growth and has today more than 300 employees at several international offices.

**H**RSi provides Software as a Service and collects Big Data from retailers worldwide that gets processed by algorithms. By gathering billions of records of important data of what consumers are buying every day, they turn those records into insightful information, which makes it easier for suppliers to make better decisions. The information can tell the supplier how their products are sold in different locations and the current stock level, thereby improving the on-shelf product availability as well as reducing excess inventory.

I belong to PMO, Project Management Office. We support RSi by defining and maintaining project management and processing standards across the organization. I have been working on a big internal project where they want to transition to a new software that will make it easier to keep track of onboarding new customers.

“Can you please explain the changes you have done in the repository?”

Onboarding is a complex process, managed by different teams using multiple software programs. By transition the majority of the work to one software, we will be able to eliminate duplicate work and streamline the process. It has been a very challenging project from the first day and I have got a lot of responsibility. With great support from my colleagues, we have come a long way and I look forward



Me and the other interns at RSi.



## RETAIL SOLUTIONS INC.

to see how it will affect their way of working when we implement it in September. Working with a new software is always challenging. I will never forget the day I came to work and got an email from a colleague in India. He was responsible for the particular software I was using, and asked me to explain the changes I had made in the repository. When I realized that they had removed my administrator access, I got nervous. Had I by accident erased everything? Finally, when my supervisor got into the office we figured out that everything was under control. That was a big relief and something that we can now laugh about.

With short distances to both Boston and NYC, I have been able to do a lot of travelling during the weekends. Having friends around the U.S. has given me a great opportunity to visit them. I also made a list of things that I want to do locally. The list grew rapidly not long after my colleague Elaine gave me a whole bunch of brochures for places to visit. My two roommates, James and Antonio, have also suggested a myriad of places to go and we have done a couple of trips together.

I would finally like to give my sincere thanks to Andrew Martin and Ryan McCarthy for the opportunity to intern at RSi. Thank you for believing in me and for having me here for three months - even though you were looking for someone that could stay longer. I would also thank all my other colleagues that time after time have been answering all my questions. It has been a great pleasure spending summer in Providence and at RSi!

### **BEST MEMORY**

Having my friends visiting me in Providence and then doing a trip up to Boston.

### **WORST MEMORY**

When I thought I had erased the entire database the second week.

### **RETAIL SOLUTIONS INC.**

Founded: 2003

Employees: 330

Area of business: Software company

Hosting Interns since: 2015

Website: [www.retailsolutions.com](http://www.retailsolutions.com)

### **ANTON HAGLUND**

Born: 1990 in Gothenburg, Sweden

Present education: B.Sc. in Industrial

Engineering and Management

Future plans: Going to China this fall to work with my own company

# LIFE SCIENCE ENGINEERING

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**69:-**

”Drick den som sällskapsvin, dessertvin eller  
till lite kraftigare ostar med tydlig sälta.”

Rekommenderas av Master Blender Daniel Henriksson



**Vinfabriken Pärövin**  
Ursprung: Sverige   
Alkoholhalt: 8,5%  
Artikelnummer: 2350  
Volym: 750 ml

**Doft:** Mycket fruktig doft med  
tydlig karaktär av päron,  
inslag av honung och örter.

**Smak:** Söt, mycket fruktig  
smak med tydlig karaktär av  
päron, inslag av honung och  
örter

**NYHET**



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# Civil Engineering and Structural Solutions in the Bay Area



Visiting the Recreation Yard at Alcatraz.

Monte Stott and the dog Polly on adventures.

*My adventure started almost a year ago. During the year I've spent many hard working hours to make it. Today I've earned my reward, I'm working as a Civil Engineer in San Francisco, one of the most fascinating cities in the world.*

**FABIAN** The journey started back in Sweden, where I spent way more than 100 hours in the dark Swedish autumn and winter searching for sponsors to USA SIP. It was a struggle, spending hour after hour without knowing what's ahead of you. When I look in my rearview mirror, I would say that the struggle was totally worth it!

The next part of the journey started with a 3 days long kick off in New York. The time we spent in New York was fantastic in many ways. It's an opportunity to get closer to the other members, which probably will be the best friends you have during your internship and hopefully for a long time afterwards.

**EDELAND** Monte Stott & Associates provides a broad range of engineering services to households in the San Francisco Bay Area. The main services involve seismic engineering such as evaluations, retrofitting and strengthening to both new and existing structures. Monte has seven employees and the dog Polly at the office. The employees work tasks differ; some are experts on CAD and drawings while some other are responsible for the calculations.

The whole business of seismic engineering is based on the fact that California is a seismically active area. The statistics tells the habitants of San Francisco that a large earthquake is approaching in the future. Together with modern seismic reg-

ulations in the building codes this creates an opportunity for the engineers to help house owners with seismic retrofitting and strengthening. Fortunately, the procedure is relatively simple, easy to implement and affordable for the house owners.

“It's very educating to see the whole progress of the business

As an intern at Monte's firm, no day is like the other. Monte and the employees are eager to show the intern something new every day. The best way to describe a typical day as an intern is that I start with an hour of administrative office tasks. Then I start working in AutoCAD, finishing some structural or detail drawings. As an intern, Monte and the others at the firm take you out on site visits.



Me and Ylldrinn without the snorkels in Death Valley.



Viewing the hot desert of California .



## MONTE STOTT & ASSOCIATES

At those visits we measure the houses, crawl into the crawlspaces and take notes of the construction. Visits result in continuous work back at the office. It's very educating to see the whole progress of the business, from the start of a project until the end, doing both the practical and the theoretical work along the way.

When I'm not working there are constantly new things to explore in the City. I've bicycled the Golden Gate Bridge, played golf seeing the bridge, went to speakeasy bars, walked Lombard Street and the list just goes on and on. I think the diversity of this city is fantastic. The Californian nature is fantastic and it's also something you have to discover, with national parks in every direction. It's always close to a vacation; beaches and ski resorts are just within a few hours of driving.

It will be hard to leave San Francisco and California. I will take with me all the knowledge learnt from Monte and the others at the firm, newfound friends and many fantastic memories. I will forever be thankful for the generosity and training from Monte and the opportunity USA SIP has given me. This is a period of time I will remember for the rest of my life with a big smile on my face.

### **BEST MEMORY**

Exploring Yosemite National Park.

### **WORST MEMORY**

When my intern buddie Ylldrin left after finishing his internship at Monte Stott.

### **MONTE STOTT**

Founded: 1989

Employees: 7

Area of business: Structural Engineering

Hosting Interns since: 2011

Website: [www.montestott.com](http://www.montestott.com)

### **FABIAN EDELAND**

Born: 1990 in Gothenburg, Sweden

Present education: M.Sc. in Civil Engineering

Future plans: Finishing the internship before finishing my Master studies

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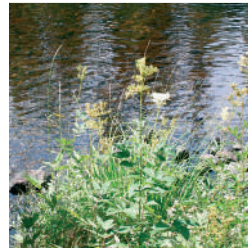
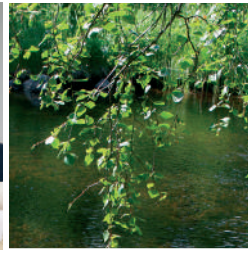
- Computer Science
- Software Engineering

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Civil and Environmental Engineering deals with construction in the community, houses to live in, roads to travel on and water to drink. It includes everything from planning to full-scale operation. The vision is to build a sustainable society, taking into account the environment, energy and economics. Research analyses and solves problems linked to the interaction between technical solutions, man/society and nature.

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\* Chalmers' Master's Programmes with majors in Mechanical Engineering and Energy and Environmental Technologies received the highest distinction, Very High Quality, in the Swedish governmental Quality Assurance Evaluation 2013

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# Chicago, Just Around the Corner



Sign in front of Zebra's new facility at 3 Overlook Point.



Metra train to Chicago.

*One day by accident while exiting through the back door after a lecture, I came across an opportunity that totally was going to change my future plans. I ended up in a recruitment session for the USA Summer Internship Program and decided to take the chance to apply. Afterwards, I knew that was something I will never regret.*

**G** After spending a great week in New York City, I headed off to begin my journey in Chicago. As soon as I arrived at O'Hare International Airport, I knew I had made the right decision. However, it still felt uncomfortable being so far away from everyone else back in Sweden. I was now standing totally lost in the airport with no clue of what was going to happen. I didn't even know how to order a cab. Eventually, I managed to get a cab and arrived safely to a hotel in Vernon Hills, which was going to be my home for the next six months.

**U** On my first day of work, I entered through the doors of Zebra Technologies at their brand new facility at 3 Overlook Point. The building boasts of five floors of cubicles, offices, conference rooms, labs, engineering workshops, a nice restaurant and a well-equipped fitness center. I was immediately taken care of and introduced to my new colleagues in the Advanced Development Department. I was given my own desk with all the supplies and tools I needed and began working on projects that my manager assigned to me.

**N** Zebra is a global leader of the barcode printing industry, RFID technology and IoT Solutions. Since last year, after the acquisition of Motorola Solutions (which was more than twice the size of Zebra), Zebra has grown tremendously. Zebra focuses on delivering complete solutions for the bar-

code printing industry, real-time locating systems and platforms that allow enterprises and retailers to take advantage of internet connected devices.

The internship program is carefully organized and the company has planned several events for us interns. At one of the events the CEO of

## “ A Swedish Chalmers Graduate!

Zebra, Anders Gustafsson (a Swedish Chalmers graduate), talked to all the interns. He explained his journey from Hörsalsvägen to becoming the CEO of a billion dollar global company.

The main responsibilities of the Advanced Development department include R&D projects and development of new concepts and technologies that could improve the quality of future



Work desk at 3 Overlook Point.



Cloud Gate, known as The Bean. Located downtown at Millennium Park.



## ZEBRA TECHNOLOGIES

products. I was assigned to two projects. The first one was to baseline existing printers. Basically, my task is to identify the quality of the printed label when printing in different modes and with different types of labels. This includes printing, scanning and analyzing a certain amount of labels to achieve statically reliable data.

My other project was in collaboration with the Illinois Institute of Technology about how to reduce the noise caused by the printing process. Here, I was taking over after what Simon Blomé accomplished during his internship last year. I am now in charge of this project and by the end of my internship I will hold a presentation with the results of my contribution to the board.

Alongside work, there is a lot to do in the great city of Chicago. Try out Chicago's delicious and famous deep dish pizza, rib fests, outdoor concerts, sport games and I promise that you too will fall in love with the culture here!

I really feel that my bachelor in automation and mechatronics at Chalmers has served me well during my internship at Zebra so far. I have realized that you actually can apply what you have learned in school, even though it doesn't feel like that right before the exams.

As a final point, I would really recommend you to challenge yourself and apply for an internship abroad. Who knows, your next adventure might just be around the corner.

### **BEST MEMORY**

Downtown Chicago on 4th of July.

### **WORST MEMORY**

Realizing that the Wi-Fi of the hotel only supports 0.3mbit/s.

### **ZEBRA TECHNOLOGIES**

Founded: 1969

Employees: 7000

Area of business: Barcode and RFID Technology, IoT Solutions

Hosting Interns since: 2012

Website: [www.zebra.com](http://www.zebra.com)

### **GUNNAR BOLMVALL**

Born: 1993 in Gislaved, Sweden

Present education: B.Sc. in Automation and Mechatronics Engineering

Future plans: Finish my internship, then travel, before starting my Master studies at Chalmers

### INCREASED ECO FOCUS LEADS TO NEW JOBS FOR CHEMISTS

*The chemical companies play an important role in the transition from fossil to bio-based raw material. Knowledge about bio processes and new technology is needed to succeed. Young chemists can look forward to a favorable market that is steadily expanding, offering new types of jobs in the forefront of chemistry.*

In the transition towards more biobased products, the chemical industry, which often produces the material for other industries, has a vital role. By switching from fossil raw material to renewable raw material in their own production, they make contribute to more end products being bio-based.

The chemical industry is also

striving towards making the processes themselves more advanced by learning from nature, says Nils Hannerz, head of Industrial Bioeconomy at IKEM, an industrial and employer organization for the chemical industries in Sweden.

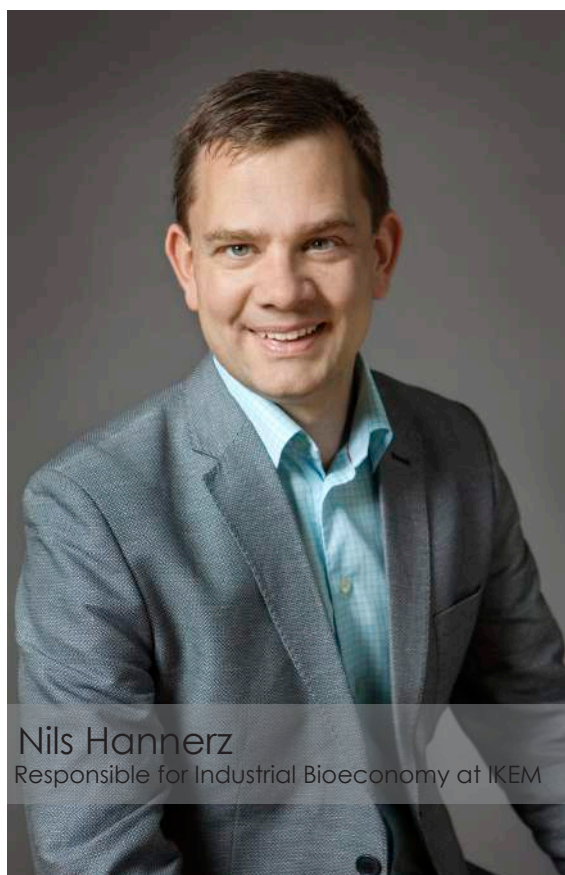
— Our knowledge about biotechnology, DNA and bacteria is constantly increasing.

We are constantly finding and evolving enzymes catalysts that are smart and can optimize production. This is knowledge that can also be incorporated into the products. In some cases for example a plastic that is able to be decomposed through composting is needed and in those cases knowledge about both plastics and decomposition is necessary.

Another trend is that customers and consumers are requesting bio-based chemicals and materials, that is, chemicals and materials that consist of raw material from living things like wood, algae or agricultural products. Many companies have listened to their customers, for example; the Coca Cola Company has started manufacturing their bottles using bio-based plastic, Tetra Pak want their packaging to be completely bio-based as soon as possible – IKEA's goal is to use only recycled or bio-based plastics in their manufacturing by 2020 .

In this trend with more bio-based products it is crucial to find profitable ways of optimizing these technologies and processes, making this a desirable skill. IKEM sees huge opportunities for Swedish industry to be competitive.

— Sweden doesn't have the biggest plants in the world but we do have good industrial



Nils Hannerz  
Responsible for Industrial Bioeconomy at IKEM

competence and access to a lot of bio-based raw material. For example, we are already in the forefront when it comes to producing ethanol from forest resources. It is important for IKEM to support the chemical companies and create the right conditions for the transition. This includes creating substantial alliances and notifying politicians about what makes it easier for the companies to operate in terms of rules and laws. IKEM also wants more people to understand how much the companies are working on the transition to bio-based production. Not many people know about this, Nils Hannerz says.

There is a delusion of the chemical industry being the same as the petrochemical industry. However, chemistry is about remaking molecules and building them in process-

es, not so much about if the raw material is oil or wood. — Since more and more companies want to do eco conscious choices, the work market for chemists is expanding and bolstering. People working with new bio-based raw material and processes will be able to find work in Sweden and abroad. With the industries crossing paths more often than before, new and exciting roles emerge for chemists. There are many more jobs than the ones that first come to mind when thinking of chemists, Nils Hannerz notes.

As a chemist you can work at Åhlens' department for skin care products, in a lab at Perstop, or with material purchasing in a county. If ICA wants to move to bio-based packaging, they will most likely need consultants that can help those in charge of purchasing

in their decision making. This also means that it's useful for chemistry students to have knowledge about business aspect of the operation as well. - Being aware of the connection between brand and chemical origin has become even more important. That's where the profit is, and it's also where technology grows fastest. Even if two molecules are identical, their origin can still matter when it comes to a company's brand. The chemists of the future will need to understand branding in order to be able to support their employers, says Nils Hannerz.

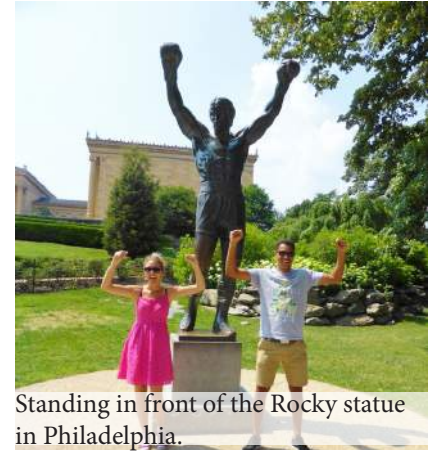
# IKEM

*Innovations- och kemiindustrierna i Sverige*

# Working in the Railroad Industry and Exploring the US



Michelle and I during the cherry blossom festival.



Standing in front of the Rocky statue in Philadelphia.

*My dream has always been to travel to USA and this was the perfect opportunity to make my dream come true. I could not imagine how fun and exciting it was going to be, but after this internship I can say that it was absolutely amazing and a life time experience!*

**N** The morning my wife and I woke up to take the flight to JFK International Airport in New York City, news all over the world reported on a major storm that was coming to New York that very same day. Over 3,000 planes in Sweden were already cancelled but for some reason, ours was not. Crossing our fingers, we safely landed in New York City. Who knew that winters in New York could be colder than those in Sweden?

**A** I must say I could not have gotten a more welcoming arrival. My boss picked us up, showed us around Philadelphia and took us out for dinner. The coworkers were all kind and eager to help us find a place to stay for the next six months of our time here in the US. They kindly forced us out from the motel we were staying at that time and invited us to stay at their places.

**M** Eventually we found a cozy apartment in a nice neighborhood with facilities including pool, gym and tennis courts – it was amazing. We chose to live in Deptford, a township in New Jersey and it was the perfect spot for us. There were plenty of good restaurants and shopping areas but at the same time a peaceful and quiet area to live in. New Jersey is famous for their shores, so called the Jersey Shore. It does not matter where you are on the coast, you will always find a beach. Our favorite beach was in Cape May, the southernmost point

of New Jersey. The town is small and beautiful, the beach is perfect and we could easily spot dolphins.

Having a car and being located on the east coast has been fantastic; there are a variety of cities and places to visit. We spent our weekends on road trips and during workdays there were plenty of

“Here we say “go down the shore”...

things to do locally. Being in the US has really been an adventure that we will remember forever. Every state that we visited had distinctive attractions and cultures: Miami with its sunny beaches, Chicago with its famous “L” transit system, and Washington D.C. with its neoclassical architecture.



The Pandrol crew celebrating Dave's birthday with the Mickey Mouse theme.



## PANDROL

The company I worked for, Pandrol USA, is a rail fastening company for the railroads of America. Having an internship here was better than I ever could have imagined. I applied the things I had learned at Chalmers, and many times used theory I never thought I would need. I have had the opportunity to lead projects and meet people from other companies, gaining invaluable experiences that I will bear with me in the future. One thing I truly appreciated was that my boss every single day met with me to discuss my work and help me through my projects.

Lastly, I want to thank everyone at Pandrol USA that made my visit here in the USA so amazing and especially a big thanks to my boss Pelle Duong that made this whole adventure possible. I have gained many friendships and I want to wish you all the best of luck in the future!

### **BEST MEMORY**

The adventures during the various road trips.

### **WORST MEMORY**

Being pulled over by a cop on our way to Chicago.

### **PANDROL**

Founded: 1978

Employees: 125

Area of business: Track systems

Hosting Interns since: 2013

Website: [www.pandrolusa.com](http://www.pandrolusa.com)

### **NATHAN MAANJA**

Born: 1992 in Stockholm, Sweden

Present education: B.Sc. in Mechanical Engineering

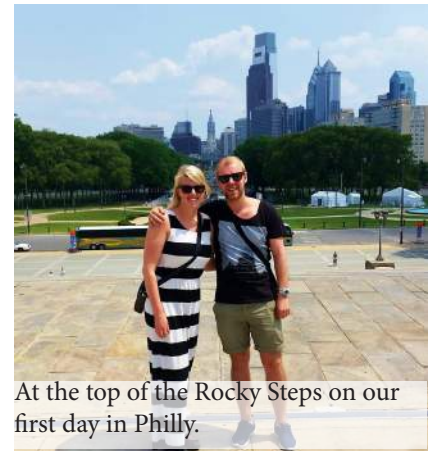
Future plans: Continue to explore USA together with my better half

# We're Going to Philly - The City of Brotherly Love

EMMA  
WIBEL  
&  
JOHAN  
FORS  
GREEN



Tailgating with our Philly friends before a Philadelphia Union soccer game.



At the top of the Rocky Steps on our first day in Philly.

*We had finally arrived! Standing on top of the Rocky Steps looking out over the Philadelphia skyline, we knew that it was actually for real. The so long awaited adventure had begun, and what better place to spend it than in the birthplace of America.*

The feeling of actually reaching your goal after one year of hard work is unreal! We recieved an opportunity of a lifetime to work for Pandrol USA, an industry leading, railroad fastening manufacturing company located just outside of Philadelphia. Philadelphia has been an interesting experience. It can be best described as a big city with a small city atmosphere. In fact it's actually the fifth most populated city in the US and the first capital where the declaration of independence was signed. Upon arrival we were walking around center city, it truly is a beautiful place. On one end of the city are historical buildings, museums, and majestic sky scrapers. At the other end are trendy shops, bars, and pop up beer gardens. Interestingly, a common city motto "let brotherly love endure" is something that you notice when spending time in Philly. People are outgoing and friendly which makes it easy for us to meet new friends. However, we quickly learned how passionate they are about their sports teams (granted they haven't been performing very well recently). So to show our support and brotherly love, we disguised ourselves with Phillies and Eagles hats!

Even though Philly has so much to offer we have also taken the opportunity to see more of the US by traveling. Our trips have helped us understand why many Americans mostly travel within the country. Since driving is not a problem, there are

many destinations that begs to be explored. But since public transportation is scarce, our stay here would probably not have been the same if we did not have our sparkling blue car to take us anywhere. Within our first month, we have been able to visit the sunny beaches of Jersey Shore and spent a weekend in Rhode Island with some of our USA

“We received an opportunity of a lifetime”

SIP 15 friends. The best weekend thus far has been in Philly when we invited all our fellow north-east coast SIP students for the 4th of July weekend.



The Swedes and Dave in the intern(ational) office at Pandrol USA.



The skyline of Philadelphia.



## PANDROL

By now you probably get the idea that we live in Philadelphia. This is not where we work though. Every morning we take the car over to New Jersey, at a small country side town called Swedesboro. This is where Pandrol USA is located, harbouring both manufacturing facilities and offices. At Pandrol, we work for the engineering department where you as an intern, depending on what background you have, are assigned different tasks which are all of importance to the company. For mechanical engineers, such as Johan, the work often comes down to product development, which involves CAD and calculations. Emma, who has been studying Industrial Engineering and Business Management, has been working with product development and data analysis. During our time here we have already taken up unique challenges and experiences.

It feels great, that after three years of studying we can contribute to a company in a meaningful way. A big reason is our mentor Pelle Duong who really pushes you to make the most out of yourself. Another reason is the comfortable atmosphere of the office, helpful colleagues, and state of the art facility we conduct our work in. We would like to send a big thanks to Pelle and our colleagues at Pandrol.

Time flies here in Philadelphia, thank god that we have a few more months to go. So until we see Sweden again, remember to let the brotherly love endure.

### EMMA WIBEL

Born: 1992 in Gothenburg, Sweden

Present education:  
B.Sc. in Industrial Engineering and Management

Future plans: Continue my studies at Chalmers University of Technology

### JOHAN FORSGREN

Born: 1991 in Uddevalla, Sweden

Present education:  
B.Sc. in Mechanical Engineering

Future plans: Continue my studies at Chalmers University of Technology

### BEST MEMORY

Spending the 4th of July weekend in Philly with USA SIP friends

### BEST MEMORY

The 4th of July weekend here in Philadelphia with friends from USA SIP

### WORST MEMORY

Not being able to sit because of a bad sunburn from the Jersey Shore

### WORST MEMORY

Having to pay \$100 for the taxi from the airport in New York our first night in the US

### PANDROL

Founded: 1978

Employees: 125

Area of business: Track systems

Hosting Interns since: 2013

Website: [www.pandrolusa.com](http://www.pandrolusa.com)

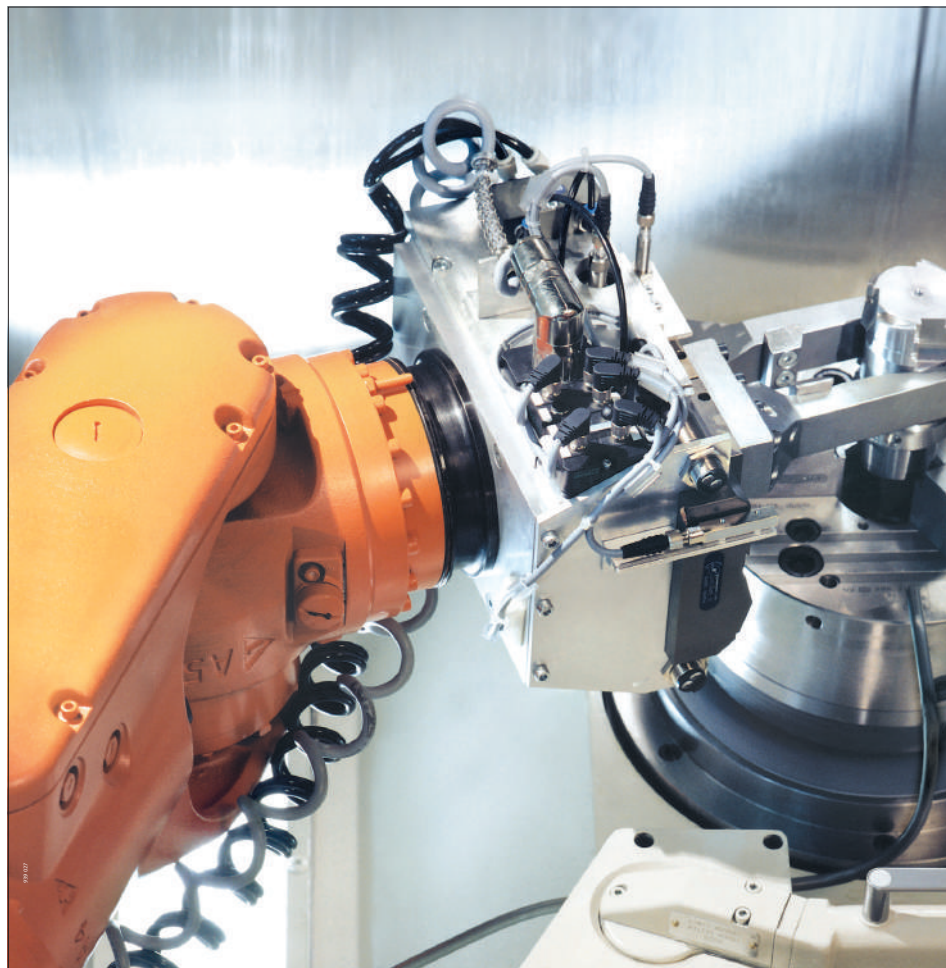
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Läs mer på [www.cementa.se](http://www.cementa.se).

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Kunder från 60 industrisektorer har största förtroende för rullningslager och linjärstyrningar från INA och FAG i sina konstruktioner. De innovativa lagerprodukterna är driftsäkra, de ökar anläggningskapaciteten, minskar vikten och tillåter kompakt konstruktion. Detta sparar både energi och kostnader. Vi sätter standarden för vad som är den perfekta produkten för varje applikation. Det är därför nya produkter föds varje dag, utgående från samarbetet mellan våra kunders tekniska krav och våra ingenjörers kreativitet. Behovsanpassade lagerlösningar från INA och FAG leder alltid till ökad kostnadseffektivitet.

Dra nytta av våra starka sidor – prata med oss.

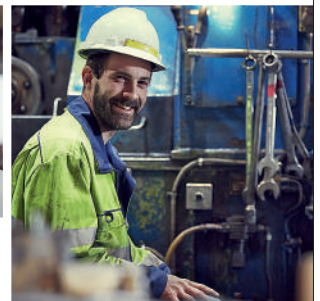
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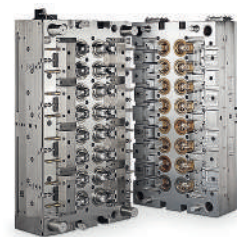
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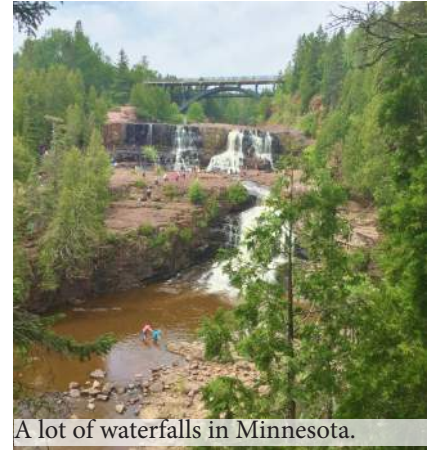
Lediga tjänster och intresseanmälan hittar du på [widespace.com](http://widespace.com)

**WIDESPACETM**

# A Wisconsin Summer Filled With Plastics



From one of the beautiful state parks in Wisconsin.



A lot of waterfalls in Minnesota.

*Wisconsin has a lot to offer when it comes to food, nature, culture and sightseeing. As for work I have gotten to experience the world of plastics, and learned things that otherwise never would have crossed my mind. For this opportunity I would like to thank everyone at Nolato Contour for all the hospitality throughout these couple of months.*

**J** When an opportunity like this is presented, you are obliged to go for it. You know that you are going to miss family and friends but the regret when turning down an internship abroad has the potential of haunting you for the rest of your life. It is an unforgettable experience that has broadened my perspectives and refined my competitive attributes towards future employment.

**B** I turned down a rainy Swedish summer for a three-month visit to Baldwin, Wisconsin. Baldwin is found about half an hour from Minneapolis, has roughly 4000 inhabitants and is home to the plastics molding company Nolato Contour. Nolato is a Swedish company with headquarters in Torekov and has global activity in Europe, Asia and North America.

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**G** When I arrived I was not at all familiar with plastics molding, something I hoped would be beneficial when challenging myself as an adaptable engineer. Luckily I was right. I got to experience the company areas from top to bottom and left to right, all the way from production to manufacturing, process, quality and product engineering. The tasks I was challenged with were as diverse as the areas and could range from interpreting European blueprints and work instructions to statistical analysis, nurturing customer relations, and making my own blueprints and designs. As a bioengi-

neering student I'm not very familiar with CAD, Nolato however uses CAD software a lot and I managed to catch up with the basics pretty quickly.

My spare time has been devoted to exploring both Wisconsin and Minnesota. Where I live, with a colleague, there is not much to do as re-

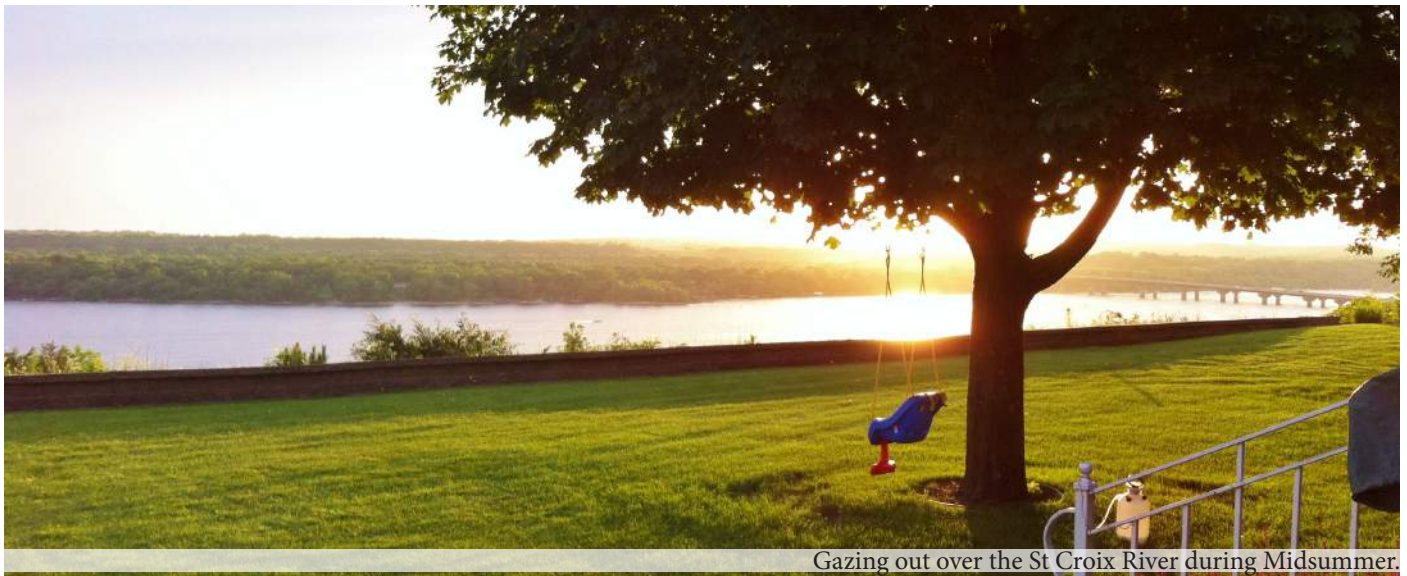
“You’ll tell me if this is Undercover Boss, right?”

gards restaurants and sightseeing, but fortunately about half an hour car ride in any direction will get you to the center of things.

I have previous experience from larger cities in the US and I must say that I'm happy that I ended up somewhat on the country side, with a reasonable distance to downtown Minneapolis. I got a genuine experience surrounded by



About 30 meters under ground.



Gazing out over the St Croix River during Midsummer.



## NOLATO CONTOUR

Americans going on with their daily doings, on a safe distance from the brochure tourist traps.

There's an abundance of activities for someone who likes to experience the beauty related to Midwestern nature. The wildlife is most easily observed laying at the side of the road, but he or she who heads out into one of the state parks might encounter turkey, deer, raccoon, black bear and coyote to mention a few. It is easy to do the exploration on your own because of the American mentality; wherever you go people are generally social and friendly, especially when they find out you are from Scandinavia.

These last three months has provided me with a tremendous experience that I will carry with me the rest of my life. I should also mention that three months has been the optimal amount of time to spend on an internship like this. When I return to Sweden I can continue the next semester of studies right where I left off early summer. Three months have also been sufficient to fully experience American culture and acquire occupational skills high enough to create things of value to Nolato.

### **BEST MEMORY**

Driving along the north shore of Lake Superior.

### **WORST MEMORY**

Having some of my valuables stolen.

### **NOLATO CONTOUR**

Founded: 1990

Employees: 180

Area of business: Precision plastic injection molded parts and injection molding of liquid silicone.

Hosting Interns since: 2015

Website: [www.nolato.com](http://www.nolato.com)

### **JACOB DAHLBERG**

Born: 1989 in Gothenburg, Sweden

Present education: B.Sc. in Bioengineering

Future plans: Seize opportunities and complete my last year of studies



## Styr - leder - genomför

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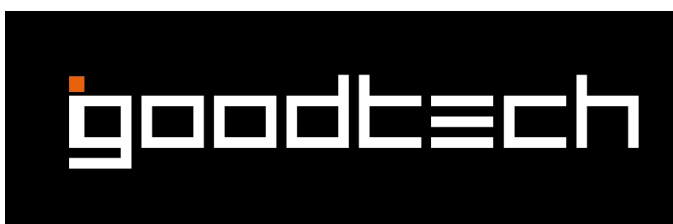
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# Sunshine and Hurricane Protection in Paradise



Working hard at MaestroShield.



Me and David sailing Miami to Key Largo.

*The past year I spent much time on contacting companies trying to sell ads, not being a good sales person this was not an entirely easy conquest. But it was worth every minute. I spent my summer in sunny Naples learning all there is to know about hurricane shutters and screens at MaestroShield.*

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After a year of hard work I finally got to board the plane that would take me to Naples, Florida. Though the way over was a bit nervous and uncomfortable, having no idea what to expect, arriving in Florida gave me a great feeling straight away. My boss Marie picked me up at the airport and our first stop was a true American experience, shopping at a giant Walmart.

In a place as hot as Florida there is a big market for products that can keep citizen's houses and patios cool, such as screens. MaestroShield is a company operating mainly in exterior and interior screens, but also in the hurricane shutter business. A hurricane shutter can be described as a neat roll-down garage door that is installed to protect windows and doors from hurricanes (and burglars). Exterior screens are very similar to window blinds, just in a very large scale, and usually covers windows or doorways surrounding patios or pool areas to give a nice shade as well as keeping out bugs and snakes. MaestroShield also carries a variety of motors and electronics and these pieces are also sold separately to motorize existing shutters and screens.

MaestroShield is established in the city of Naples. Naples is situated on the Gulf coast of Florida. It is a small city similar too Italy . There are long white beaches with a wide variety of wild animal

life and the Everglades are just around the corner. I don't think I have ever seen so many golf courses located in such a small area as Naples in my life. There are many so called Gated Communities in Naples and these are often built hosting a golf course right next to the house. This has resulted in over 90 golf courses in just Naples, where only 30 of them are accessible to the public.

“Every day truly was Another day in Paradise...”

Interning at MaestroShield has been a lot of fun and I have learned a great deal of new things. My coworkers are talented, easygoing and fun, making every day interesting and enjoyable. My first days at the office were spent getting acquainted with the products and the employees at



A hot day at Ft Lauderdale Beach.



The Pier at sunset in beautiful Naples.



## MAESTROSHIELD

MaestroShield. I was then assigned to create marketing and instructional material for some of their newly developed products. Most of my time was spent using CAD-software, but sometimes I had smaller tasks on the side. For example, I could go with the installers to houses and record videos of how the installations of new products were done, and later edit the video to fulfill its purpose.

Since I had never been in the US before, I wanted to experience as much as I could, which meant a lot of weekend activities. I have seen many of the beautiful places and creatures in south Florida such as Key West and manatees. I also got to see a very patriotic Rodeo show which included bull riding, barbeques and guys in very tight jeans. But some of my best moments were definitely spent in Naples, where every day truly was Another day in Paradise.

I would like to thank Marie Kallstrom for giving me the opportunity to work and learn at MaestroShield. And extra thanks to her for inviting me to stay in her home, taking me on great weekend activities and sharing her positive outlook on life. I would also like to show gratitude to the team at MaestroShield for teaching me so much and making this summer Funtastic!

### **BEST MEMORY**

Celebrating 4th of July in Key West with Caroline.

### **WORST MEMORY**

The two days the AC was broken in the office.

### **MAESTROSHIELD**

Founded: 2005

Employees: 7

Area of business: Shutters and screens

Hosting Interns since: 2009

Website: [www.maestroshield.com](http://www.maestroshield.com)

### **CAMILLA JOHANSSON**

Born: 1988 in Gothenburg, Sweden

Present education: B.Sc. in Mechanical Engineering

Future plans: Continue my studies at Chalmers University of Technology

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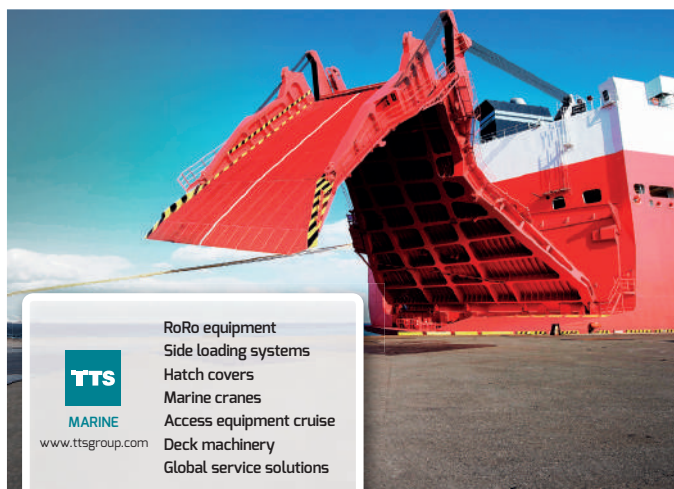
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# Managing the Climate in Toronto



Me and Chad at the softball pitch.



The Toronto sign at City Hall.

*In this multicultural city you could get a taste of almost every corner of the world. With my addiction to traveling this could not have been a better fit. Right in the middle of Toronto I have had the greatest experience of my life!*

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I have always wanted to experience a life abroad in a new culture. Big lively cities fascinate me and my time in Toronto has definitely exceeded my expectations. There are endless things to do and the weekends have been full of activities. There is always something happening and every weekend there are summer street festivals.

Living in a college dorm downtown has definitely been an experience. The accommodations were not what you would call luxurious, as the lack of air conditioning and tight living quarters were a challenge. Despite these minor obstacles I would not have had it any other way. Living in the heart of the city suited me perfectly, and the compact living among other people has been truly enjoyable. I made many good friends in the residence, friends that filled the evenings and weekends with laughter and excitement.

Toronto is truly fascinating because it is one of the world's most multicultural cities. Over half of the population is born outside of North America. Many people I have met shared their stories of how they moved to Toronto during troubled times. I have had such a good experience with all the people that I have come in contact with and I cannot be grateful enough. They have welcomed me with their arms open and made my first weeks here in Toronto unforgettable.

My expectations from joining the board of USA SIP and going for an internship in Canada were high. I had heard great things about other students' experiences in North America and I could not wait for my journey to begin. The last year at Chalmers has been the best so far and to end that year with an internship could

“

...I am living my own dream right now

not have been better. My time with USA SIP has been one of the best I have ever had and I really need to take a moment sometimes just to realize that I am living my own dream right now.

Mobile Climate Control (MCC) is a company that designs and manufactures custom engineered HVAC systems (Heating, Ventilation and Air



Meeting up with friends in Philadelphia during 4th of July



Toronto skyline.



## Mobile Climate Control

Conditioning) for all types of commercial vehicles like buses, coaches, off-road and military vehicles. They started as a small company some 40 years ago in Sweden and can now be found in Canada, USA, Poland, China and Sweden. I have worked in the testing department and performed various tests of both small components as well as large buses.

An important part for me was experiencing the Canadian sport culture. The rumored fanatic hockey season has not really begun yet but nevertheless I have joined a softball team! My boss, Chad, invited me to play with his team and that could just be described as awesome! I have, with a bit of luck, already made my first homerun. The ball bounced on the player's glove and over the fence. The feeling of playing a sport I definitely would not have played in Sweden felt truly genuine.

My stay in Toronto has gone by so fast. Traveling and meeting up with friends in other cities such as Philadelphia, New York, and Montreal has been a wonderful way to take advantage of my time here. I will even go on a vacation to Mexico with my girlfriend. Hopefully there is more but who knows what the future holds. The only thing you can do is to be prepared for it.

I would like to thank MCC for this amazing experience and especially Chad Cuirrier who has taken care of me both at work and at the softball pitch.

### **BEST MEMORY**

The great evenings at The Madison Pub.

### **WORST MEMORY**

The sadness of going to IKEA and picking up a plate and chopsticks for just one person.

### **MCC**

Founded: 1975

Employees: 300

Area of business: Vehicle HVAC systems

Hosting Interns since: 2009

Website: [www.mcc-hvac.com](http://www.mcc-hvac.com)

### **RICARD BERGSTRÖM**

Born: 1991 in Skövde, Sweden

Present education: B.Sc. in Mechanical Engineering

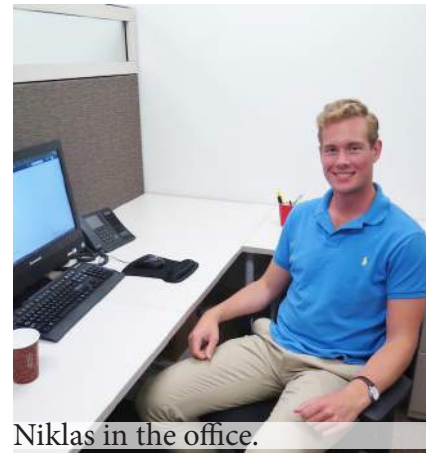
Future plans: Starting my master studies next spring with a semester in Australia

# Serving Canada's Tire Repair Shops From Coast to Coast

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Niklas seeing The Rolling Stones in Buffalo.



Niklas in the office.

*Selling tire and wheel service supplies all across the second largest country in the world is no small task. Neither is managing a product catalogue of over twelve thousand items. At the shoreline of lake Ontario we were made part of this challenge and given the opportunity to test ourselves.*

After a long trip across the Atlantic we finally arrived in New York. We were excited about the week we had planned out and started by getting out of bed early every day to check out as many tourist attractions as possible. But as the week went on and our legs grew more and more tired from all the walking, our focus shifted slightly from tourist attractions to exploring the nightlife. That was probably the best decision of the week and we ended up having a blast.

After that amazing week we took another flight to Toronto and got picked up by Erik, the previous intern from USA SIP. He had stayed for two years now and Prema Canada had broadened his responsibilities significantly compared to when he first arrived to the company. This felt good to keep in mind, that we were going to work for an organization that takes their interns seriously and challenges them with the responsibilities that are necessary to develop. After Erik picked us up at the airport we had some chicken wings and later drove to the apartment.

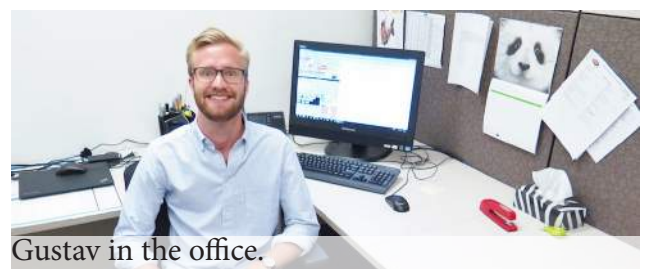
To get to know the company we were going to work for from the roots we started out working in the warehouse. We picked items for orders that came in during the days and familiarized ourselves with the products and the layout of the warehouse. We were surprised that, despite

the vast amount of items located in the warehouse, the employees could identify items and their locations just by seeing the product number.

Later on we were introduced to the main project that we will be working on for the duration of our internship. A few years back Prema replaced their

“  
I said I’m sorry!  
(-Random Canadian)

accounting system but it was not sufficient to meet all their needs so they continued using an older system that handled the product information. Because of this, redundant information is stored and



Gustav in the office.



Kensington - The coolest area in Toronto.



## PREMA CANADA

a lot of extra work goes to keeping both the product database and the accounting system synced. Our part here is to try and find a way to bring the accounting system and a new IT-system together in the hopes of eliminating the time and energy wasted on keeping two incompatible systems updated.

Another thing that surprised us was how nice everybody was, not just at the office but Canadians generally. At one time I, Niklas, was out and walked by a car that was standing at a crossing trying to squeeze out in the busy traffic. As I passed in front of it I heard someone shouting from inside the car and a door opening. Hesitantly I looked back, afraid of an angry Canadian and saw a guy sticking out his head screaming "I said I'm sorry!". That's Canada for you.

Prema Canada is one of the largest tire and wheel service suppliers in Canada and continues to grow. Prema's independent distributors buy their inventory from the warehouse located at the head office in Burlington and later sell it to their customers all over Canada. The former head office burned down a few years ago but Prema made a remarkable recovery and quickly got back in business.

We would like to thank all involved in making this internship possible and all the people we have met during our time here. An extra large thanks goes out to our coworkers at Prema Canada that have been so friendly and welcoming towards us which made our days much more enjoyable.

### NIKLAS RICHARDSSON GUSTAV SWEDBERG

Born: 1993 on Tjörn, Sweden

Present education: B.Sc. in Industrial Engineering and Management

Future plans: Finish my internship and then continue with my studies.

Born: 1991 in Uppsala, Sweden

Present education: B.Sc. in Industrial Engineering and Management

Future plans: Finish my internship and then continue with my studies.

### BEST MEMORY

Seeing The Rolling Stones in Buffalo.

### BEST MEMORY

Finding Kensington, the jewel of Toronto!

### WORST MEMORY

Realizing that Brooklyn Lager is nowhere to be found.

### WORST MEMORY

Being unable to sleep because of the heat (yes, still talking about Canada).

### PREMA CANADA

Founded: 1954

Employees: 30

Area of business: Tire industry

Hosting Interns since: 2010

Website: [www.premacanada.com](http://www.premacanada.com)

# Den bästa platsen att börja din karriär på



**CHARLOTTE BERGMAN**  
» VD



**VÄLKOMMEN TILL ELU.** Vi vill öppna portarna och släppa in dig i några av landets största och mest komplexa projekt. Slussen och Arenastaden i Stockholm och nya Hisingsbron i Göteborg är några av våra aktuella uppdrag.

På ELU finns landets främsta konstruktörer inom bygg-, anläggnings- och geoteknikområdet. För dig som ska ut i arbetslivet – och som menar allvar med ditt yrkesval – är ELU den bästa platsen att börja din karriär på.

Du kommer in på ett företag som är stort nog för att du ska kunna utvecklas i din egen riktning. Du blir dessutom en del av en organisation som har tydliga värderingar och en lärande miljö och som delar med sig av sina stora kunskaper och erfarenheter till dig som är yngre och vill växa.

ELU driver branschens utveckling inom ett flertal teknikområden, där till exempel 3D-projektering, FEM-beräkningar och BIM är speciellt aktuellt just nu. I den här utvecklingen är du välkommen med dina kunskaper och ditt öppna perspektiv.

Välkommen till ELU. Den bästa platsen att börja din karriär på.

*Charlotte Bergman*  
**CHARLOTTE BERGMAN** vd

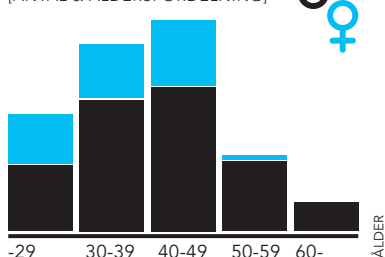
ELU är en av landets ledande konstruktörer inom bygg-, anläggnings- och geoteknikområdet med runt 200 medarbetare och kontor i Göteborg, Helsingborg och Stockholm. [www.elu.se](http://www.elu.se)



# LANDETS LEDANDE KONSTRUKTÖRER INOM BYGG, ANLÄGGNING OCH GEOTEKNIK

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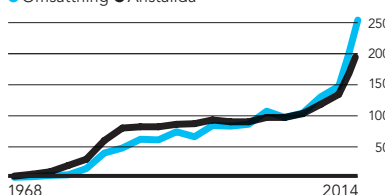
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## OM ELU

ELU är en av landets ledande bygg- och anläggningskonstruktörer med snart 50 års erfarenhet, cirka 200 medarbetare och kontor i Stockholm, Göteborg och Helsingborg.

ELUs verksamhet är uppdelad i tre verksamhetsområden: Anläggning, Bygg och Geoteknik.

**ANLÄGGNING.** Utför projektering och konstruerar bland annat fasta och rörliga broar, trafik tunnlar, hamnanläggningar, kajer, färjelägen, sponter, formställningar och vattentorn.

**BYGG.** Utför projektering och konstruerar de flesta typer av byggnader med tyngdpunkt på kontor, bostäder, förvaltningsbyggnader och kommersiella lokaler.

**GEOTEKNIK.** Projekterar bland annat komplicerade sponter, stödmurar, pålgrundläggningar och jordförstärkningar. Uppdragen omfattar hela byggprocessen – från geotekniska undersökningar, tidiga utredningar och anbudsförslag till uppföljning och aktiv design under byggskedet.

»CERTIFIERING. ELU är certifierat enligt ISO 9001:2008 och ISO 14001:2004.

## FORSKNING OCH UTVECKLING

»ELU medverkar i normkommittéer och utvecklingsprojekt. Dessutom har vi ett nära samarbete med högskolor och ledande byggentreprenörer. Det ger oss en unik praktisk erfarenhet. ELU har även en adjungerad professor i brobyggnad på KTH och flera doktorander.

## EN UTVECKLANDE ARBETSPLATS

»ELU har ett kontinuerligt utvecklingsprogram för medarbetarna. Det innebär att vi stärker och tar tillvara medarbetarnas vilja och förmåga att vara engagerade och aktivt bidra till ELUs utveckling. Vi ser även till att skapa ett arbetsklimat där alla på ELU mår bra, trivs, utvecklas och hjälper varandra att klara uppdrag.

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# Making the Railroads a Better Place at CXT Concrete Ties



Posing in front of my car, "The Beast II".

*This internship will represent a separate chapter of my life. I am heading for a town called Spokane, which is located in Washington State. Without ever being into the USA before and starting off all by myself, I am excited. Let my journey begin!*

**M** So my journey has begun and what can I say? This is one of the most exciting things that I have ever done! Here you will find the large bulk packages in the grocery stores, Ralph Lauren clothes for a cheap penny, lawsuits for strange things, and a great deal of patriotism! The people here are friendly and will start a conversation as soon as they hear your accent. So even if you start out all alone in the USA, don't worry, you will be fine!

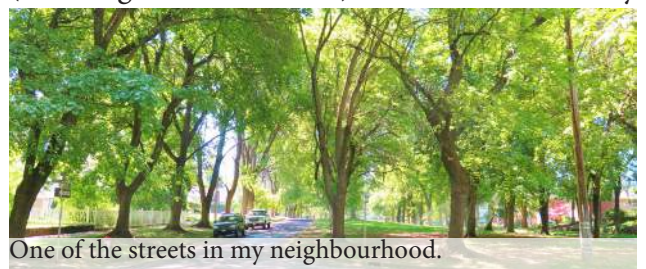
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CXT Concrete Ties makes concrete ties for the railroads. No, it didn't sound like the coolest industry to me either but if you get the chance to go there – go, go, go! My colleagues at CXT make a great team and I was included in it immediately since I bombarded them with questions about everything the first weeks. The people are friendly and you will have a hard time finding a more awesome boss than Vincent. He really gives me the space I need to work on my own and he will always be there to have a discussion when support is needed.

The job at CXT is what you make out of it and if you're hungry for responsibility you will be well fed. The boss is keen about your interests and wants your time here to work both for you and the company. This means that you will have a lot to say about the type of tasks you sign up for and that your accomplishments are important for the company. My first task was a profit-

ability analysis, which I had free hands in shaping together with my boss. Before the first month had ended I got to present the layout for the task to one of the company's vice presidents. He wanted the analysis in order to present it for the board of the 600 million dollar company, L.B. Foster, which is the parent company of CXT.

“ If you're hungry for responsibility you will be well fed

Lets talk about Spokane and the areas surrounding it. If you are a sucker for nature you might even stay here and never leave. At least that's what I have heard since I haven't gone on a trip yet.. I bet you have seen the picture of my killer car though (Mustang GT convertible). I will take that baby



One of the streets in my neighbourhood.



## LB FOSTER, CXT CONCRETE TIES

and travel all around Washington State and then Oregon, Idaho, Montana, and maybe even Canada. Try and Google "Seattle", "Portland", "Wallace Idaho", "North Cascades" and "Glacier National Park" to get a taste of what you will find around here, keep your eyes in their sockets and your mouth closed! Parts of Spokane itself are a lot like taken from a movie. Some neighborhoods, such as the one I live in, really gives you that "authentic American feeling" with houses built between WW1 and WW2 and American flags everywhere. As goes for the nightlife, Spokane is packed with breweries and cozy bars. It has two karaoke bars and as soon as you make some friends, that's where you will end up Friday and Saturday night for sure!

Finally I would like to thank the people who have been a part of my journey. Thanks to all the ambitious people from the USA Summer Internship program that made my journey possible. Thanks to all the lovely people at CXT for every laugh and experience. Thanks to the friendly people I have met! Thanks to my family and friends back in Sweden for supporting me.

### **BEST MEMORY**

Realizing that the streets next to my home were by far the most beautiful I have ever seen.

### **WORST MEMORY**

When my phone battery died and the GPS with it.

### **LB FOSTER, CXT CONCRETE TIES**

Founded: 1902

Employees: 1113

Area of business: Railroad infrastructure

Hosting Interns since: 2012

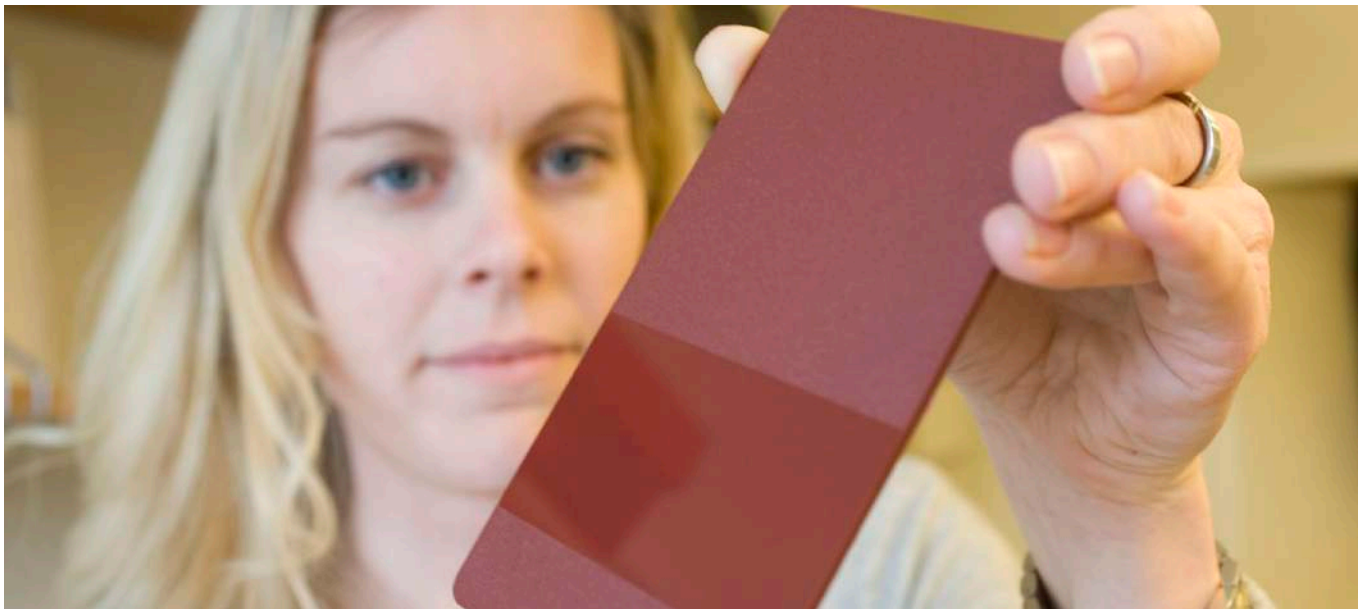
Website: [www.lbfoster.com](http://www.lbfoster.com)

### **MAGNUS MELLGREN**

Born: 1990 in Gothenburg, Sweden

Present education: B.Sc. in Industrial Engineering and Management

Future plans: Enjoy my internship and then proceed with a M.Sc. at Chalmers University of Technology



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So count on plenty of interaction with other researchers, students and industrial contacts – not least internationally. Our open and trusting approach is geared to nurture your career as well as the research. Whether you're in one of the basic sciences or one of the Chalmers areas of advance, we're sure your time at Chalmers will have merit wherever you go.

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# Experiencing Life in a Southern Small Town



Walking down the pier at Tybee Island, Georgia.



The Olympic Park in Atlanta.

*In the southern parts of USA, in the state of Georgia, lies a small historic town named Madison. This little town was named “The Prettiest Small Town in America” a few years ago. This is also the place where I went for my life’s, so far, greatest adventure!*

**C** I have probably never been more nervous than when I was standing at the airport in Göteborg, realizing I was actually going to leave everything at home to be an intern in the US. After that everything happened so fast, and after three amazing days in New York I finally arrived in Madison, Georgia, where I was going to spend the next six months.

**A** **R** **O** **L** **I** **N** **E** Arriving in Georgia, one of the first things that struck me was the heat. I knew the weather was going to be hot and humid, but this was way beyond what I had imagined. However, being from cold and windy Göteborg I am really enjoying some heat for a change.

**P** **A** **L** **M** Madison is a beautiful small town one hour outside of Atlanta. One thing I can tell you about this town is that it truly lives up to the saying of southern hospitality. The people here are very sweet and friendly, always greeting you with a smile on the streets and invites you to come along on all sorts of things. This made me feel at home here in Madison almost immediately. Also, being only one hour away from Atlanta and thirty minutes from the college town Athens, I can always find something to do.

Madison is also the home of Rema Tip Top North America Inc’s production facility. Rema Tip Top is a company originating in Germany that specializes

in industrial rubber and tire repair materials for the automotive industry. My first couple of days here I was introduced to the different parts of the production. This was a really good start to my internship since it gave me an overview of the entire manufacturing, from incoming raw material to the final product. Since then I have been

“I am so glad I decided to go on this adventure!”

working a lot in the lab, performing different tests to ensure that the product really is Tip Top before it reaches the customer. Aside from this I was also given my own project to work on, aiming to make one part of the production more efficient. The project involves everything from gathering data and statistics for the current process, coming up with alternative options and testing them,



The Chateau.



## REMA TIP TOP NORTH AMERICA INC.

to finally making an economical evaluation and a suggestion about how to make the process more efficient. This is an experience I believe is going to be very valuable for me as a future engineer.

The house where I live, also known as "the Cha-teau", has four bedrooms, two bathrooms, a big kitchen and living room, and a large porch - perfect for enjoying the afternoon sun. Rema Tip Top has also provided me with a car, which is very much appreciated since it is almost impossible to go anywhere outside of Madison if you don't have a car. This also means that it is easy for me to use my time off work to explore the surroundings here in Georgia, from the metropolis of Atlanta to the beaches in Savannah.

Although I was really nervous at first, I am so glad that I decided to go on this adventure! It is one of the best decisions I have ever made, and I want to thank everyone involved in making this possible. Great thanks to all of my wonderful colleagues at Rema Tip Top for being so welcoming and taking such good care of me both at work and outside of it. Finally, I also want to thank the board of the USA Summer Internship Program for all of the effort and hard work they put into this.

### **BEST MEMORY**

Celebrating 4th of July in Key West, Florida.

### **WORST MEMORY**

Losing GPS connection in the middle of nowhere with no battery on my phone.

### **REMA TIP TOP**

Founded: 1953

Employees: 700

Area of business: Industrial and automotive rubber

Hosting Interns since: 2007

Website: [www.rematiptop.com](http://www.rematiptop.com)

### **CAROLINE PALM**

Born: 1992 in Gothenburg, Sweden

Present education: M.Sc. in Chemical Engineering

Future plans: Continue my internship until December, then finishing my masters at Chalmers.

# Just a Small Town Girl Living the Dream in the Garden State



Celebrating Midsummer in New York with the Statue of Liberty in the background.



Hiking and ziplining in New Jersey.

*She looked at me and laughed. I had just said: "I'm going to walk to the store now". It was the word "walk" that made her laugh and that was when it really hit me that I had arrived in the U.S. and New Jersey – the Garden State - where they barely have any sidewalks, where every family has at least two cars and where I was going to spend the coming 6 months.*

**S** When you live in New Jersey it is close to many cool cities and nice areas. The first months here have been amazing in every way and I have been able to explore the U.S. every weekend. I started off with celebrating Midsummer the Swedish way in Battery Park in Manhattan, followed by road tripping to Boston the weekend after that and during the 4th of July weekend celebrating independence day the American way in Philadelphia with barbeque, mac & cheese and a lot of fireworks together with my USA SIP crew. The opportunities to explore the U.S. and the large cities are never-ending and that is what I like the most with being on the east coast.

**B** But is not only the big city life that you can explore here. It really is the Garden State where you can spend your days at beautiful beaches (that you have to pay for and share with thousands of other people), go hiking in the national parks or why not spend a day in one of the shopping malls.

**Q** Working as an intern at Rema Tip Top has been a great experience so far. I have been working with both the IT department and the Market Development Specialist. At the IT department I mapped out process chains in different situations based on Event Driven Process Chain theory. I have been involved in a research project with the Market Development Specialist which involves finding new

customers and new markets to operate in for the company. All my coworkers are nice and fun; I really enjoy going to work. Some colleagues took me to my first tailgate party, followed by a soccer game, some weekends ago. European soccer teams can brag about Zlatan Ibrahimović and Messi but the U.S. definitely has passionate and dedicated fans that have lots of fun before, during and after the games (especially one of my coworkers - Chris).

“The best summer ever - and it has just started!”

I will try to explore as much of North America as possible before my internship is over. Rema has given me the opportunity to go on a business trip to Rema's manufacturing plant in



Tailgating and soccer game with my co-workers.



The beach in Belmar.



## REMA TIP TOP NORTH AMERICA INC.

Georgia in August. From there my plans are to explore the southern parts of the east coast, including Florida and the city life of Miami.

Lucky for me, it is also quite close to Canada from here where I live so I am also planning to go to Toronto and Montreal during the fall.

I want to express my happiness about being a part of USA SIP. I knew that it was a great organization and a one of a kind experience doing an internship abroad before I joined. Now I know for sure that is the best opportunity you can have as a student that is longing to see how real businesses work and wants to experience other cultures. I truly wish that everybody got an opportunity like this because so far, this has been the best summer ever - and it has just started! You can imagine how much I look forward to the coming 4 months that I have left here.

I would like to thank everyone at the Rema Tip Top office in New Jersey. A special thank you to Olaf and Alexandra for giving me this opportunity and also to Katharina who always takes care of me at work. I would also want to give tonnes of thank you to the Pashman family for letting me stay at their home for the first week and to the Chandler family that is making me feel like home during my stay here.

### **BEST MEMORY**

The trips to New York, Boston and Philadelphia during the weekends and all the fantastic people I have met!

### **WORST MEMORY**

Stuck in traffic in 1,5 h on a Friday afternoon on my way to Manhattan (when this is the worst, you know you're having a good time...)

### **REMA TIP TOP**

Founded: 1953

Employees: 700

Area of business: Industrial and automotive rubber

Hosting Interns since: 2007

Website: [www.rematiptop.com](http://www.rematiptop.com)

### **SANNA BLOMQVIST**

Born: 1993 in Säfte, Sweden

Present education: B.Sc. in Industrial Engineering and Management

Future plans: Travel and work before continuing with my Masters

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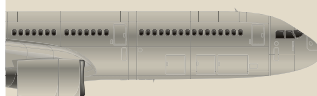
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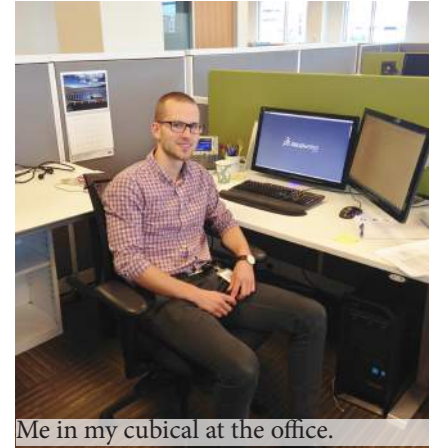
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# Electro-Mechanical Engineering in the Capital of North Carolina



ABB office in Raleigh, NC.



Me in my cubical at the office.

*After waiting a whole year, the day had finally arrived. I was on my way to the southern US, more specifically to Raleigh in the state of North Carolina. Uncertain of how my near future would turn out, I landed in Raleigh. However, it soon became clear that this was really something worth waiting for, and that I had a huge adventure ahead of me.*

**PATRICK** After one week of sightseeing in New York City, I was prepared to move on and continue my journey to Raleigh, the capital of North Carolina. I arrived on a Sunday, one day before my internship was starting. As soon as I left the airport and stepped out in the sun, I was overwhelmed by the intense southern heat. While the taxi driver drove me to the house that I was going to live in for the next six months, I asked how traffic in the area was and if it was possible to use the bus to get around the city. The taxi driver told me, and I quote: “You must have a car in this city, you cannot go anywhere without it”. I had not thought of this at all before arriving, and I ended up getting a North Carolina driver’s license and buying a car.

As an Electro-Mechanical Engineering intern I worked on three different projects, two of which can be seen as my main projects. The first one entailed developing their so called “Equipment Specifications”, which is a specification ABB sends out to suppliers so they know exactly what ABB needs in a specific project. The task was to make

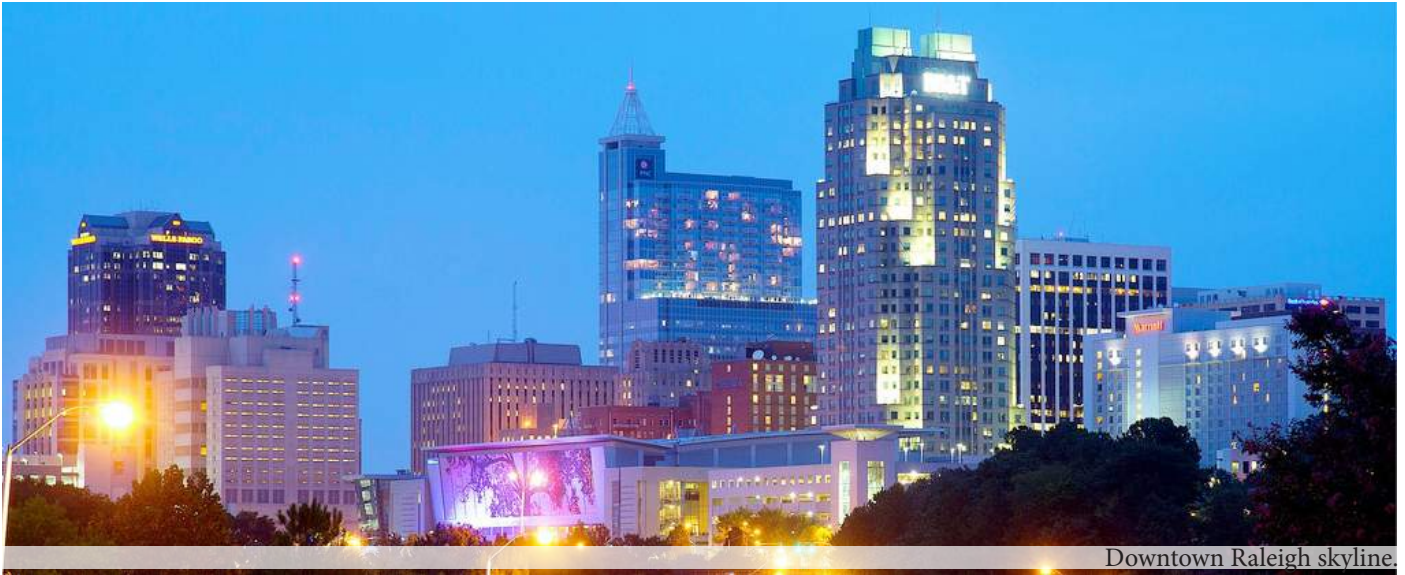
“...ended up getting a North Carolina driver’s license and buying a car

**HAMMAR** Let me give you some background information about the company I am interning for. ABB is a huge multinational company in the Electrical/Electronic Manufacturing business and is addressed almost everywhere in the world. It is one of the leading companies in power and automation technologies, providing a broad range of products and solutions to improve performance and reduce environmental impact for its customers. The company creates revenue globally in 100 countries and has around 140,000 employees. ABB in Raleigh specializes in Power System Substations and provide solutions to energy companies in North America in addition to other countries.

a document for all these “Equipment Specifications” and make it more robust than the earlier documents. In order to achieve this, some VBA programming was involved. The other main project was to develop and increase the efficiency of a library of 3D parts for their new PDM system. This system is software that will make modeling



My new “sports car”.



Downtown Raleigh skyline.



## ABB

3D parts and assemblies easier. The philosophy behind it is to be able to reuse 3D parts in many different projects. So, if you are about to model a new substation layout, you would easily be able to pick parts from an old project and insert them in a new one. This will make the work much easier and more efficient by saving time that would otherwise be sent on creating all the parts from scratch.

Even though there were some late nights at the office, I had plenty of time to experience both Raleigh and other cities, such as Philadelphia, Washington DC, and New York City, as well as other cities in North Carolina. Some of the adventures I had were hiking in the mountains near Raleigh, relaxing on the beach in the eastern North Carolina, spending late nights in downtown Raleigh, kayaking trip on the Black River in South Carolina, and much more.

Finally, I would like to thank all my colleagues in Raleigh for the warm welcome and for all the help they provided. A special thanks to my boss, Ulf Andersson, for giving me this great opportunity and believing in me. I have had a really great time! To all the members of USA-SIP 2015: thank you so much for this unforgettable year!

### **BEST MEMORY**

Celebrating 4th of July with other USA SIP members in Philadelphia.

### **WORST MEMORY**

Spending hours at the DMV office to get my driver's license.

### **ABB**

Founded: 1988

Employees: 140 000+

Area of business: Electrical/Electronic Manufacturing

Hosting Interns since: 2015

Website: [www.ABB.com](http://www.ABB.com)

### **PATRIC HAMMAR**

Born: 1993 in Ludvika, Sweden

Present education: B.Sc. in Industrial Engineering and Management

Future plans: Travel abroad and then finish my master's degree



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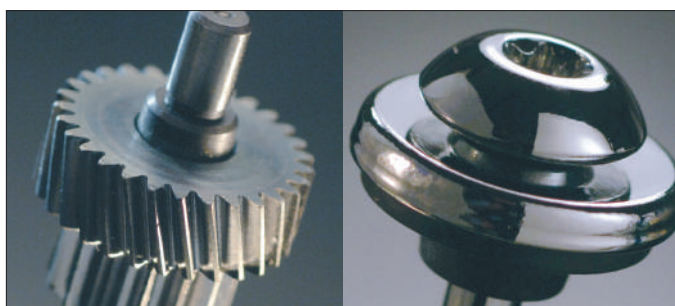
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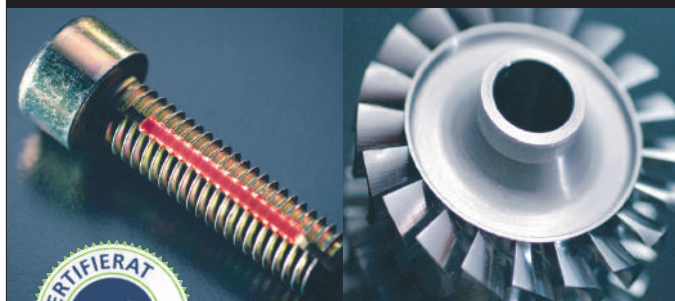
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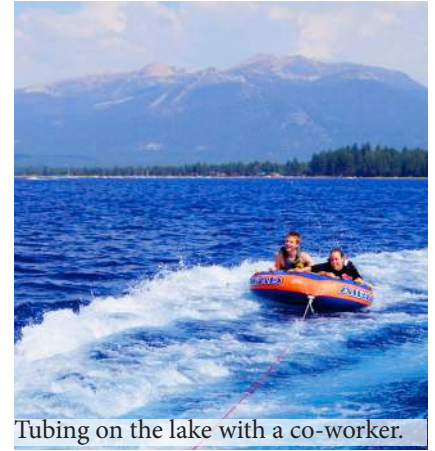
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# Always an Adventure in South Lake Tahoe, California



Me at the top of Mount Tallac.



Tubing on the lake with a co-worker.

*Massive mountains rising from crystal clear water, hundreds of beautiful beaches, dazzling casinos and the most warm-hearted people you can imagine - all in one place. In this all seasons- adventure base you will never get you bored and it is understandable why people who leave Tahoe always come back.*

**I** My internship in South Lake Tahoe, California has far exceeded my expectations. I doubt that I will ever feel ready to go back home. The active lifestyle here makes even the laziest American venture for activities like rock-climbing, kayaking, mountain biking and watersports in summertime. When the lake transforms into a winter wonderland, first-class skiing in deep powder is found just around the corner.

**S** Lake Tahoe is the second deepest lake in the United States. The elevation is above 6000 feet, which equals to the highest mountain in Sweden. The peaks stretch even higher and create stunning views. I have been fortunate to spend my time in this scenic environment at the consulting firm Avalex Incorporated. The company was founded 24 years ago and offers civil engineering and environmental services.

**A** The firm's projects often include solving different problems concerning water. Unlike Gothenburg, where rain is pouring down all the time, California is a very dry place. The state also contains the largest population in the USA, which creates a serious water supply issue. Politics, competing interests, groundwater contaminations, continued urban development and a large farming industry causes the problem to become even more complex.

Usually many projects run at the same time at Avalex. I have been introduced to professional engineering work by performing different tasks such as AutoCAD drafting, statistical calculations, report writing and environmental studies. My first project involved groundwater contamination in the mountains of Sierra County, not far from South

“ Exactly at the right place,  
at the right time

Lake Tahoe. Craig, the president of the company, took me on a nice drive up along the beautiful lake to collect samples of the groundwater at the site.

To reach the groundwater different wells were used. When one of these wells was installed, the driller bore right into an unknown goldmine from the Californian Gold Rush in the 1850s! We found the mine entrance just a small



Bears are common here, they go for the trash just like the Swedish crows.



## AVALEX INC.

hike down the hill and could explore it during a break later on. After collecting our samples we started to drive back to Tahoe. At one point we stopped by a river with huge rocks sculpted by the water. I remember putting my feet in the water thinking to myself that I was exactly at the right place, at the right time in my life.

Another positive thing about working at Avalex Inc. is the ability to regulate your office hours. Being able to take a Friday off gives time to explore California on the weekends. Both San Francisco and the majestic national park of Yosemite are within a close driving distance from Tahoe. The flexibility also gives you the freedom to go kayaking just outside the office in the adjacent marina during lunch breaks.

My roommates are two lovely American girls that I get along with very well. Both of them work at a hotel nearby and I've been introduced to all of their colleagues. Making new friends has not been a problem at all thanks to them. It seems to me that two months have flown by and I am happy to be staying longer. Tahoe and the people here have taken care of me in the best possible way. I want to give special thanks to my supervisors Michaela Morgan and Craig Morgan for giving me this opportunity. I also want to thank the board and members of the USA Summer Internship Program for an amazing year!

### **BEST MEMORY**

My first time driving into Tahoe.

### **WORST MEMORY**

Saying goodbye to family and friends.

### **AVALEX INC.**

Founded: 1991

Employees: 4

Area of business: Civil engineering and environmental services

Hosting Interns since: 2009

Website: [www.avalex.info](http://www.avalex.info)

### **ISABELLA LINDHOLM**

Born: 1991 in Luleå, Sweden

Present education: B.Sc. in Mechanical Engineering

Future plans: Travel South America before continue my studies at Chalmers University of Technology

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# Two Swedes Living Large in the Big Apple

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Rooftop party in Williamsburg, Brooklyn.



Midsummer celebration in Battery Park.

*New York City, this one of a kind concrete jungle, is like an all-you-can-eat buffet of great food, culture and people. The mixture of people and cultures from all over the world works like a charm and the city that never sleeps fills every day in our living dream with new experiences and surprises.*

After spending the first week in New York hanging out with the rest of the USA SIP group, we were left alone in the City with the first day of work awaiting the following morning. Fortunately, we had both been offered to move into an apartment in Brooklyn where one of last year's interns was previously staying. We had also gone to check out the office building so we felt well prepared for our first subway ride to work. Arriving to the office building, we were relieved to step into the air-conditioned lobby after an uncomfortably hot subway ride in our "first day of work" outfit. Once in the office, we were greeted with some bagels, coffee and a warm welcome that immediately made us feel a part of the SKIM team.

SKIM is a global market research agency, specializing in healthcare, consumer goods, and telecommunications services and technology. We came to be part of the consumer goods division, where most of the clients are big international corporations, such as Procter & Gamble, Nestlé and Unilever. Within the consumer goods division, SKIM consults corporations on their decisions regarding pricing strategy, portfolio management, product communication and more. SKIM has developed expertise in advanced methodologies to be able to answer different key business questions. The goal is often to optimize the product portfolio, prices or claims in order

to increase revenue or market share as well as to attract and create loyalty among consumers.

Right from the first day at SKIM, we were treated as permanent employees and were given great responsibility. The work has sometimes been challenging but whenever we have run into a

New York, the financial and cultural capital of the world...

problem that we cannot solve on our own our colleagues have all been very helpful and supportive. Over the first couple of weeks of our internships, we have been involved in different projects within the consumer goods division. The overall goal is to be able to manage full studies by ourselves at the end of our year at SKIM.



Wine tasting on SKIM day.



The Manhattan skyline.



## SKIM

Besides the work on external client projects, we have also been assigned our own internal IT projects with focus on making the interaction and communication with clients more efficient. The projects we have been assigned are essential to the business and how the company works, making the work both inspiring and challenging.

The SKIM office is located in one of the biggest and most densely populated cities in the world. New York is a truly multicultural city and is considered to be the cultural and financial capital of the world. Walking down the streets you meet all kinds of interesting people, from Wall Street brokers in fancy suits to the hip artists of Williamsburg. When moving to New York, the city can be a bit frightening at first and it takes a while to get used to living in the chaos of this never-sleeping concrete jungle. But one soon discovers that most New Yorkers are friendly and helpful in case you feel a bit lost. The City offers an endless amount of things to do and places to discover and although we have spent all our evenings and weekends exploring the City, we have barely scratched the surface of what it has to offer. So far we have not been bored one single second and we most likely never will be.

For the great experience we have had so far this summer we would like to thank all our welcoming and supportive SKIM colleagues. A special thanks to Sanjay Sugarek and Steven Ung for their guidance and also to Oskar Törneld, a Chalmers Alumni who initiated the SKIM internships.

### FREDRIK STRÖMBERG

Born: 1991 in Linköping, Sweden  
Present education: B.Sc. in Industrial Engineering and Management  
Future plans: Continue my internship at SKIM until next summer.

### STEFAN SVENSSON

Born: 1991 in Lidköping, Sweden  
Present education: B.Sc. in Industrial Engineering and Management  
Future plans: Continue my internship at SKIM until next summer.

### BEST MEMORY

Watching the sunset over the Manhattan skyline from a rooftop in Williamsburg.

### BEST MEMORY

Celebrating Midsummer Eve in Battery Park.

### WORST MEMORY

Paying New York City rent every month.

### WORST MEMORY

Paying way too much for a cab ride from the JFK airport to Brooklyn. I mean WAY too much.

### SKIM

Founded: 1979  
Employees: 130  
Area of business: Market research  
Hosting Interns since: 2013  
Website: [www.skimgroup.com](http://www.skimgroup.com)



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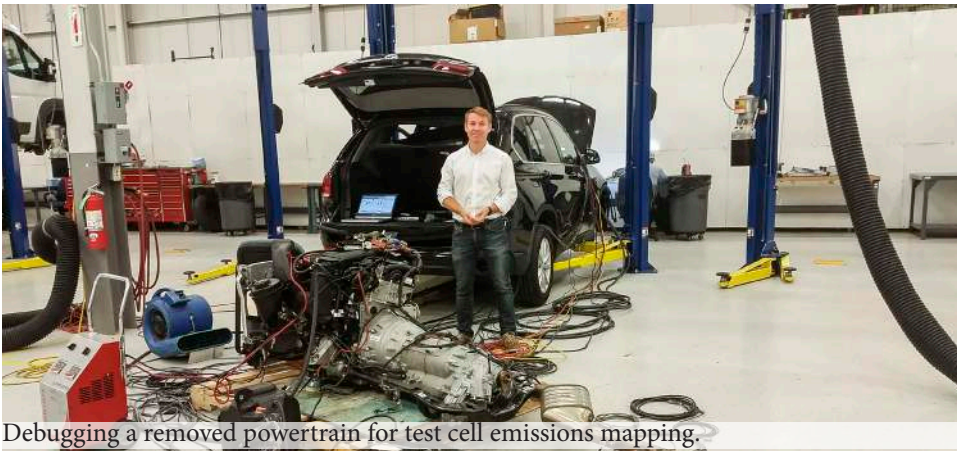
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# Working in the Heart of America's Automotive Industry



Debugging a removed powertrain for test cell emissions mapping.



Slip N' sliding.

*Detroit has suffered from hard times ever since the beginning of the city downfall in the 1950s. Although the city filed for bankruptcy in 2013, Detroit is much more than a sad story, it's a phoenix, it's America's great comeback city!*

**G** My internship at FEV North America started last fall, which means that by the time this report is written a yearlong internship is coming to its end. It has been a year packed with meaningful impressions, new friendships and valuable experiences.

**U** FEV has its roots in Aachen, Germany. In North America FEV is located in Auburn Hills, MI, a township surrounded by the headquarters of "The Big three" (Ford, GM, Chrysler), making it an ideal location for its business. FEV is a global supplier of automotive engineering services in combination with in-house research and development. Trusted by all the major automotive OEMs and governmental agencies, FEV has expanded over the years with branches all over the world. The most recent expansion is in Sweden where FEV acquired Vicura, the former SAAB/GM powertrain.

**S** At FEV you are a part of an engineering team led by an experienced engineer. You are given a lot of responsibilities that are crucial for a successful project. I've been involved in several projects during my time here. First, I worked on a strip friction evaluation of a medium duty diesel engine. Individual engine components were tested with regards to their friction contribution. Testing all major components gives you a friction mapping of the engine. The results can later be used by the customer of the project to design more

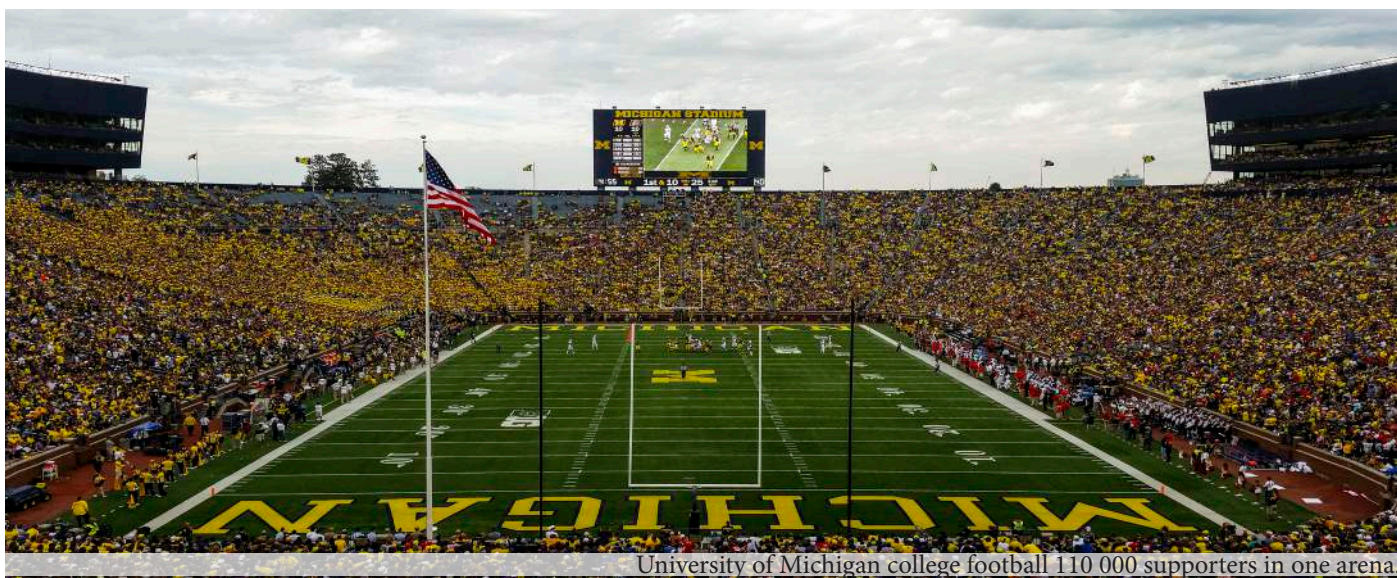
efficient engines. The next project was a vehicle emissions benchmarking project. The project goal was to evaluate the performance of modern diesel exhaust aftertreatment catalysts. Four cars were included in the project; all with similar engine displacements. Before testing the cars had to be instrumented with emissions and temperature

**“** It's America's great comeback city **”**

sensors. This meant that the powertrain had to be completely removed from each vehicle, get fitted with the sensors, and then put back in the car, which is easier said than done. The actual testing was conducted on a vehicle dyno, with the car's exhaust pipe hooked up to advanced emission measurement equipment. But in a country where the majority of personal cars run on gasoline finding the correct test equipment for the rapidly



Off-roading at Silver lake sand dunes.



University of Michigan college football 110 000 supporters in one arena.



## FEV INC.

growing diesel market is difficult. For this reason I got the opportunity to travel to Denver and Los Angeles and conduct the tests on my own. “Don’t fuck it up” my mentor jokingly told me before departure. I believe this shows how much responsibility FEV gives to its interns. I had limited knowledge within these areas before I started my internship but FEV is a great place to learn.

FEV takes good care of their interns. As an intern you are given a car and get to share an apartment with one of the about 20 other interns. All interns live in the same apartment complex, which is just a 5-minute drive from work. The other interns are from Germany, France, Australia and the US. From day one you become a part of a group and there is always something going on, during the weekdays after work we usually played soccer, volleyball, or went to the gym. The weekends were usually filled with road trips or nights out. After a year my lazy weekends can be counted on just one hand...

There is no denying that Detroit has suffered from hard times. The county where I live is wealthy, but closer to downtown there are large areas with high crime rates, abandoned houses and industrial buildings as well as many unlit streets. The industrial foundation promotes a base for new business starting up and gives hope for the future of the city. Needless to say I have experienced an interesting time in this city’s history.

### **BEST MEMORY**

Skiing in the Rocky Mountains.

### **WORST MEMORY**

Michigan’s cold and unforgiving winter.

### **FEV INC.**

Founded: 1978

Employees: 450 (4000 global)

Area of business: Powertrain R&D

Hosting Interns since: 2014

Website: [www.fev.com](http://www.fev.com)

### **GUSTAV GRÄSBERG**

Born: 1992 in Karlstad, Sweden

Present education: B.Sc. in Mechanical Engineering

Future plans: Travel US east coast before returning to Chalmers for master studies in applied mechanics

# Experiencing the Great Cradle of Automotive Engineering

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Casually posing next to our car in the apartment complex.



Downtown Detroit.

*Taking a year off from our studies to go abroad and work in the field of our major was something we simply could not miss out on. Better yet, experiencing this in one of the world's most influential countries was like a dream come true.*

After one year of hard work to make it to the United States it felt amazing, yet unreal to finally board the flight to New York. A kick off weekend with all the members of USA Summer Internship Program was an excellent start for our yearlong adventure.

When we left New York we had a three-week gap in our schedule before our internship started. Therefore, we took the opportunity to fly over to California for a road trip along the west coast. We started out in San Francisco and, after a couple of days of sightseeing, we rented a car and headed for the famous Highway 1. After some nights at different beautiful locations along Highway 1 we reached Los Angeles, where we enjoyed one weekend before we ended the road trip in Las Vegas.

Having spent a few weeks on the go, it felt good to arrive in Detroit and settle down in the spacious three room apartment our hosting company provides. An apartment and a company-supplied car is shared between two interns. There are around 20 interns from all over the world that live in the same apartment complex and everyone contributes to make you feel welcome in their community. In adjacent to the apartments there is an area with a beach volleyball court, swimming pool and a tennis court available, which makes activities occurring regularly. The fact that every intern knows each other well makes the office hours more enjoyable too.

FEV, which is an abbreviation for Forschungsgesellschaft für Energietechnik und Verbrennungsmotoren, is a powertrain and vehicle engineering company that has its origin in Aachen, Germany. It is a company that offers a complete range of engineering services, from design, analysis and prototyping to calibration and homologation for advance internal combustion gasoline, diesel, and alternative-fueled powertrains.

“It's great to finally apply the knowledge obtained through our education

We are working in the light-duty diesel department. There are always new projects ongoing and interns work in teams with engineers to accomplice the projects' goals. We have a supportive mentor of our own and a supervisor that overlooks the project. As an intern you



Just another joyful day at our workstation.



Kayaking tour at Pictured Rocks National Lakeshore.



## FEV INC.

have the privilege to take responsibility and work independently. Every intern is assigned to a workstation, which includes a desk with dual monitor and other necessary accessories. FEV offers a genuinely good working environment with friendly coworkers who are always willing to share their knowledge and experience. It is a great place for expanding your engineering qualities and putting your theoretical skills into practice. It feels great to finally apply the skills and knowledge obtained through our education. Furthermore, the timing could not be better as our choice of masters is to be decided within a year.

Detroit is definitely the cradle of automotive engineering. Many of the world's greatest car companies headquarters like Chrysler, General Motors and Ford, are located here and you can really feel the spirit of the automotive history. Detroit is also the most populous city in Michigan, and the state itself offers amazing sceneries. There are a lot of beautiful forests and lakes to visit that are suitable for hiking. Some of the lakes up north are very clear and at times completely see-through.

Even though we've only scratched the surface of our one year internship, it already feels like we have made a choice we'll never regret. Last, but not least, we would like to thank our mentors Trevor and Tamas. Also, we want to thank all the coworkers at our department and all of the interns that have made our first weeks so amazing.

### CHRISTOFFER ALM

Born: 1992 in Österbymo, Sweden  
Present education:  
B.Sc. in Mechanical Engineering  
Future plans: Continuing my internship before pursuing my master's degree at Chalmers University of Technology.

### YULI HUA

Born: 1994 in Lidköping, Sweden  
Present education:  
B.Sc. in Mechanical Engineering  
Future plans: Enjoying the coming year in the US before pursuing my master's degree at Chalmers University of Technology.

### BEST MEMORY

The spontaneous road trip to Chicago over the weekend of 4th of July.

### BEST MEMORY

Travelling to the pictured rocks to experience the unique scenery.

### WORST MEMORY

To be a part of a car accident in the middle of Las Vegas.

### WORST MEMORY

Leaving Mackinac Island after just two hours of visiting, due to lack of time.

### FEV INC.

Founded: 1978

Employees: 450

Area of business: Powertrain and vehicle engineering

Hosting Interns since: 2014

Website: [www.fev.com](http://www.fev.com)



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# Opportunities in Miami Within the Aviation Industry



Friends from Chalmers that were passing by Miami on their USA trip.



Cowboys on a rodeo.

*Beaches, skyscrapers, nightclubs, money, fast cars, cubans, cigars, palms and violence. Those words were the ones that I was thinking of when hearing the name Miami. So, what of that is true? Honestly, pretty much everything, but I don't really know about the violence. And now I've learned that Miami is more than just those words.*

DAVID

The US is often referred to as the land of opportunity. Is that true also for Miami? Judging from the fact that an enormous amount of people are coming to Miami from all over the world looking for a more prosperous future, my answer would be yes. Over 50 percent of the population is born outside the US and around 70 percent of the population define themselves as hispanic. This makes Miami a truly international city. Even though Miami isn't the capital of Florida, many people call it the capital of Latin America because of its large hispanic population and its important cultural influence on Latin America.

HALLEN

The journey of Avinode took off almost 15 years ago, and it's a journey that is far from reaching an end. The company was founded by three students at Chalmers School of Entrepreneurship with the vision to change the way that the air charter industry was working. They created a marketplace for buying and selling air charter. Avinode is a tool for the charter operators to list and market their fleet's availability. On the other side of the marketplace are the brokers. They use Avinode to source the aircraft with real-time pricing and availability. Nowadays Avinode is the world's largest air charter marketplace and they are not anymore only providing the marketplace but also such products as white label apps, APIs and business intelligence to the air charter industry.

When I first came to the office I didn't know much about the aviation industry, and much less about specifically the air charter industry. That was not a problem since they had patience to introduce me to the, for me, completely new world of aviation. At the office I'm a project manager and data analyst. That means that I'm both



"Fika is prepared!"

supporting the sales team and mainly the Key Account Manager with analyzing data and managing a few projects that are aiming to support the team in the longer run. The first project was about improving the sales trip packet, i.e. the information that the salespeople bring to the customers. My mission was to turn data points that



A part of the Avinode Miami team.



The view from my balcony towards Brickell and Downtown of Miami.



## AVINODE

are in Avinodes database into valuable analysis to the customer. During that project I realized how important it is to really understand the customer to be able to provide any value to them.

Being a part of the Avinode team is awesome. The people is caring about each other and it's a warm atmosphere at the office. Even though the vast majority of the people at the Miami office are from other countries than Sweden, the Swedish heritage is still alive. Every Thursday afternoon you will hear someone from the kitchen shout "Fika is prepared!". Fika is a Swedish word for coffee break often combined with some pastries.

I'm happy that I still have several months left here in Miami because there is still so much I want to do in and around this city. It's definitely exciting to live on a small, man-made island in the middle of Miami while working with great people in an office located on the busiest street in the booming financial district of Miami.

Regardless of whether the US is the land of opportunity or not, I got the opportunity to come to Miami and work for Avinode, and that's an opportunity I never would say no to.

### **BEST MEMORY**

Every morning that I come outside and think that it's not as hot today as yesterday and think that it won't be a problem walking to the office.

### **WORST MEMORY**

Every morning that I reach the office and realize that it must have been even hotter today than yesterday.

### **AVINODE**

Founded: 2001

Employees: 15 (Miami), 70 (worldwide)

Area of business: Aviation

Hosting Interns since: 2013

Website: [www.avinode.com](http://www.avinode.com)

### **DAVID HALLÉN**

Born: 1991 in Karlstad, Sweden

Present education: B.Sc. in Industrial Engineering and Management

Future plans: Master studies in Lisbon and later in Gothenburg (Chalmers)





#usasip15



# Looking For the Real America in America's Dairyland



Lakefront Brewery. One of the many microbreweries offering brewery tours (free beer!) in Milwaukee.



A Christian fanatic outside Summerfest. An obvious part of the real America.

*My first real encounter with the city of Milwaukee came in early 2015 when Swedish game show "På Spåret" made a visit, and spoke of a city known for its cheese, sausage and brewing tradition. As a big fan of all of these things, it sounded like an awesome place to me. Little did I know then, that this was the place where I was going to spend six out of the upcoming twelve months.*

**MATS** I had joined USA SIP with a vague dream of experiencing what in my mind was a romantic picture of "the real America". The real America contained diners, pickup trucks, Republicans, country music, bars, hats, boots, guns, loose fitting jeans and much more. My hopes were high on arriving in my new, picturesque hometown Waukesha, just outside the city borders of Milwaukee, and I wasn't disappointed. On my very first introduction round in the production facility, my humble "Hi, I'm Mats" was met with a prompt "Hi Mats, do you like guns?" and like that I was invited to the firing range.

**AXELSSON** With Wisconsin being known as "America's Dairyland" and highly influenced by its many German settlers, there is indeed a lot of cheese, sausage and beer in the Milwaukee area, with a lot of microbreweries as well as the large breweries of Miller and Pabst. Milwaukee is also during the summer home to a steady stream of festivals, fiestas and events, including the world's largest music festival Summerfest. A few other examples of festivals during the summer months are: Polish Fest, Pridefest, Festa Italiana, German Fest, Irish Fest, Brewfest, Mexican Fiesta, Wisconsin State Fair and many more. Consequently there is quite a lot to do and see, even if you're a newly-arrived, lonely foreigner. Having friends strategically positioned throughout North America is

also a plus; so far I've gone to San Francisco and enjoyed the company of thirty-some classmates. I plan to see more of America during my stay!

The company that I'm doing my internship at, Walter, was founded in Germany in 1919 but was acquired by Swedish company Sandvik in the

“Hi Mats, do you like guns?”

early 2000's. It is now a fully integrated part of, and brand under, Sandvik Machining Solutions that is world-leading in the manufacturing of tools and solutions for the metalworking industry. In the Waukesha location, with about 150 staff, we produce a lot of complex, custom made tools for milling, turning and holmaking in a job shop type of



Me giving Bret and John some pointers in the office.



The weekly Saturday morning soccer, overlooking Milwaukee.



## WALTER

facility, making it a challenging environment for an industrial engineer. As an intern for six months my project description is basically: “find ways of increasing productivity in the grinding department”, which gives me a lot of freedom to look into what I feel is interesting and also is quite demanding since I don’t have anyone whipping my back or dragging me in the right direction. So far I have spent time getting to know the operations and conducted an OEE study in the grinding department. I’ve collected data together with the operators in the shop, analyzed it in Excel and presented it for both management and the operators.

I would like to thank everybody at Walter who has been very kind and inviting to me, especially the guys in the grinding department who I’ve been following around asking a lot of questions. Big thanks also to my boss and supervisor Gunnar Sterner who has introduced me to Milwaukee and gives me a lot of responsibility at work. Not to forget is my landlady and extra mom Stephanie Scherzberg who has taken really good care of me and really invited me into her home.

### **BEST MEMORY**

The Flaming Lips ridiculous stage show at Summerfest.

### **WORST MEMORY**

Being pulled over by the police on the interstate on my way home from seeing Flaming Lips at Summerfest (only forgot the headlights though!).

### **WALTER**

Founded: 1919  
Employees: 3800  
Area of business: Tools for metal working  
Hosting Interns since: 2015  
Website: [www.walter-tools.com](http://www.walter-tools.com)

### **MATS AXELSSON**

Born: 1992 in Hjo, Sweden  
Present education: B.Sc. in Industrial Engineering and Management  
Future plans: Continue my studies at Chalmers University of Technology

# A Summer in the Golden State

MARCUS  
HANAEUS  
&  
LINNEA  
JOHANSSON



Our workmates and us in the lab of DNA 2.0.



Marcus in front of the serpentine-like Lombard Street, downtown San Francisco.

*"San Francisco is a city where people are never more abroad than when they are at home." – Benjamin F. Taylor. The diversity of the city really gives this quote justification. Just like us, people here come from all corners of the world. We felt like at home from day one.*

We arrived to a rainy San Francisco. As it turns out, that may be the only rain falling this summer. The lack of rainfall during recent times has brought California into the worst drought in decades. Even though the water supply is limited, it is wonderful to wake up with a sunny sky every day.

Before departing to work in the heart of Silicon Valley, we eat breakfast in the sun overlooking the fogbank that greets and sweeps over San Francisco in the early morning. The geographical features of the San Francisco Bay Area make the weather diverse depending on where you are. Dressing appropriately can be difficult and bringing a sweatshirt along is usually a good idea especially if considering going downtown.

Our weekdays are spent in the premises of DNA 2.0. The office is just a few blocks from the corporate headquarters of Facebook. Here, the theory from our textbooks became reality. Within the walls of this office and factory we take our theory and knowledge and actually produce DNA.

The production starts with synthesizing short DNA fragments, which are later put together to form a complete gene inserted in a vector of choice. The genes undergo a diligent quality process before being shipped to the customers. Sequencing of the gene insures the gene shipped correctly fills the order and meets the customer

expectation. Our customers range from large and small pharmaceutical companies to small independent research groups. The common thread between all customers is their need for a specific gene, delivered when and as expected. Errors in production, review, or delivery are simply not acceptable. To stay in the forefront above other the biotech compa-

During the weekends we explored the beautiful coastline of California

nies in Silicon Valley, DNA 2.0 is not only committed to error free customer satisfaction, but also constantly reinvests in research and development. Development and optimization of vectors and proteins are important to keep customers satisfied to beat competition from other biotech companies in the valley. During the weekends we explore the beautiful coastline of California along US-1. The outdoor life has much to offer in this part of the



Linnea in front of a cable car along Powell Street, downtown San Francisco.



The iconic Golden Gate Bridge uniting the bay area northward.



## DNA 2.0

country. Besides the coastline, there are several national parks to explore and cities to visit. There are mountains, interior large lakes, desserts, and forests all within an easy drive.

Spending time in downtown San Francisco is very easily done. Although the downtown area is not large, there is a significant amount of diversity within its various areas or districts. The Mission district is where lots of people working in Silicon Valley live. This district offers lots of nice restaurants, cool bars and nightlife. The Castro district is a place for open-minded people. At nighttime all the bars and clubs give rise to a unique breathtaking atmosphere. If one would like to experience the true San Francisco, Haight-Ashbury is the go-to place. This area of San Francisco became famous during the 1960's and was the cultural center of the "Free Love/Hip- pie" culture that the youth of that time adopted. Across the Golden Gate Bridge, the picturesque town of Sausalito sits above the bay. The ferry connects this area to downtown, passing by the famous prison island Alcatraz. This is just another example of the ease of exploration of the area.

The summer spent together with our colleagues at DNA 2.0 gave us invaluable knowledge and experience in our field of studies, biotechnology. We felt at home in the family-like atmosphere, and no questions were left unanswered. We are very grateful for this opportunity and for this experience, giving us a glimpse of what our future could be, in The Golden State.

### MARCUS HANAEUS LINNEA JOHANSSON

Born: 1992 in Gothenburg, Sweden

Present education:  
B.Sc. in Bioengineering

Future plans: Continue my studies at Chalmers University of Technology

Born: 1991 in Uppsala, Sweden

Present education:  
B.Sc. in Bioengineering

Future plans: Continue my studies at Chalmers University of Technology

### BEST MEMORY

All days spent at various beaches, swimming in the invigorating Pacific Ocean.

### BEST MEMORY

To experience the biggest of all pride parades in the world.

### WORST MEMORY

Driving on the highway, where turn signals cease to exist.

### WORST MEMORY

All the stop signs intervening the traffic.

### DNA 2.0

Founded: 2003

Employees: 70

Area of business: Gene synthesis and bioengineering solutions

Hosting Interns since: 2012

Website: [www.dna20.com](http://www.dna20.com)



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GLC Flytt	55		Technocean Consulting AB	59
Goodtech	55		Teknikföretagen AB	110
Göteborgs Byggmästareförening	83		Thule Group	5
			Tranemo Workwear	58
			Trioplast	92
			TRUMPF AB	92
			Tryckett	59
			Träullit	59
			TTS Marine	59
<b>H</b>				
HAVD Group	86			
<b>I</b>			<b>U</b>	
IKEM	44-45		Uddeholms AB	51
Ingemar Johansson Ingenjörbyrå	86		Uddevalla Energi AB	59
Ingenjörbyrå Andersson & Hultmark AB	83		Uppåkra Mekaniska	59
IRO AB	58			
<b>L</b>			<b>V</b>	
Ludvig Svensson AB	86		VBG Group AB	59
			Vehco	36
			Verkstadstidningen & Automation	40
			VIA Travel	92
			Vinfabriken	36
			Volvo Group	9
<b>M</b>			<b>W</b>	
Mellby Gård AB	93		Wenell Management AB	92
Modig Machine Tool	74		Widespace	51
Moventas Santasalo AB	86		Wikströms VVS-kontroll AB	59
			Wingquist Laboratory	2
<b>N</b>			<b>X</b>	
Nibe	83		Xmentor AB	54
Nomo	32		Xylem Inc.	74
NovaCura	33			
Nya Lidköpings-Tidningen AB	58		<b>Y</b>	
			Yazaki Europe Ltd	32
<b>O</b>				
OKG AB	87			
Optoskand AB	87			
<b>P</b>				
Papyrus AB	58			
Perstorp Holding AB	87			
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Prefabmästarna	93			
Prospero	33			
<b>R</b>				
Rotationsplast i Munkaljungby AB	23			
<b>S</b>				
Safic Alcan Nordic AB	58			
Schaeffler Sverige AB	50			
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Setek Elektronik AB	93			
SEW-Eurodrive AB	87			

# USA SUMMER INTERNSHIP PROGRAM 2016

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## SENDS THEIR GREETINGS...

Working abroad is an experience most students want to, if not need to, aspire towards at least once during their time at school. As the world's nations increasingly become more integrated, both economically and socially, and international office environments are becoming the norm, working away from your home country can be an invaluable experience. The gained advantage is obvious and many students are working hard to achieve this goal. We proudly represent an organization that collectively works towards finding internships in North America for students at Chalmers University of Technology. These opportunities will provide our students with experiences and memories for the rest of their lives.

Our mission towards finding internships in either the USA or Canada has already begun and we

are looking forward to our common goal that we have heard so much about from both current and previous interns. We have no doubt that we have many hours of hard work ahead of us, but we are nonetheless very excited for what those hours will achieve.

*We are determined to make the USA Summer Internship Program 2016 the best it can be.*

The board of 2016 is very grateful for the work that our predecessors have achieved. Without their dedication and enthusiasm, our organization would not be as reputable as it is today. This is a reputation that has taken over 50 years to build. Our team also shares the same am-

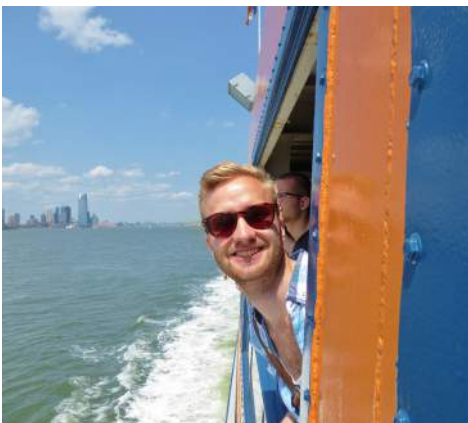
bition in trying to extend the arm of our schools focus on sustainable development. We are also looking forward to building new relations as well as maintaining the relations our former interns have created.

Finally, we would like to extend a sincere thank you to the hosting companies in North America for their hospitality and we would also like to thank all the Swedish companies who have supported us throughout the years. Without you, none of this would be possible. We are looking forward to another great year of cooperation.

The board of USA SIP 2016

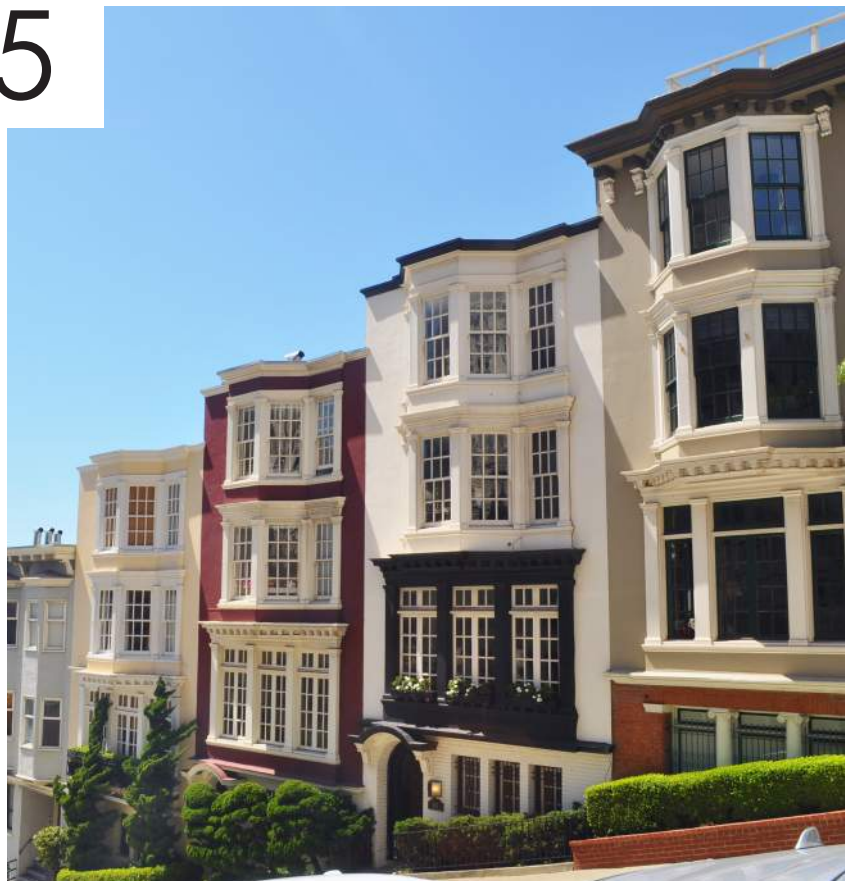


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*The time of our lives....*

**usasip**  
Summer Internship Program

# Här simmar motorn i svensk tillväxt

Teknikföretag är motorn i samhällsekonomin och oerhört viktiga för Sveriges tillväxt, sysselsättning, utveckling och export. Svenska teknikföretag står för mer än hälften av den svenska varuexporten, men motorn i företagen är människorna. Och det är där du som ingenjör kommer in i bilden.

Vi står inför viktiga utmaningar inom områden som miljö, hälsa, välfärd och klimat. Där är teknikutveckling och teknikföretag en viktig del av lösningen – om det finns rätt förutsättningar. Det kräver goda villkor för företagande och satsningar på utbildning, forskning och utveckling. Men framför allt kräver det tillgång på medarbetare i världsklass.

Därför är du som ingenjör välkommen till svenska teknikföretag för att utveckla företaget, samhället och dig själv.