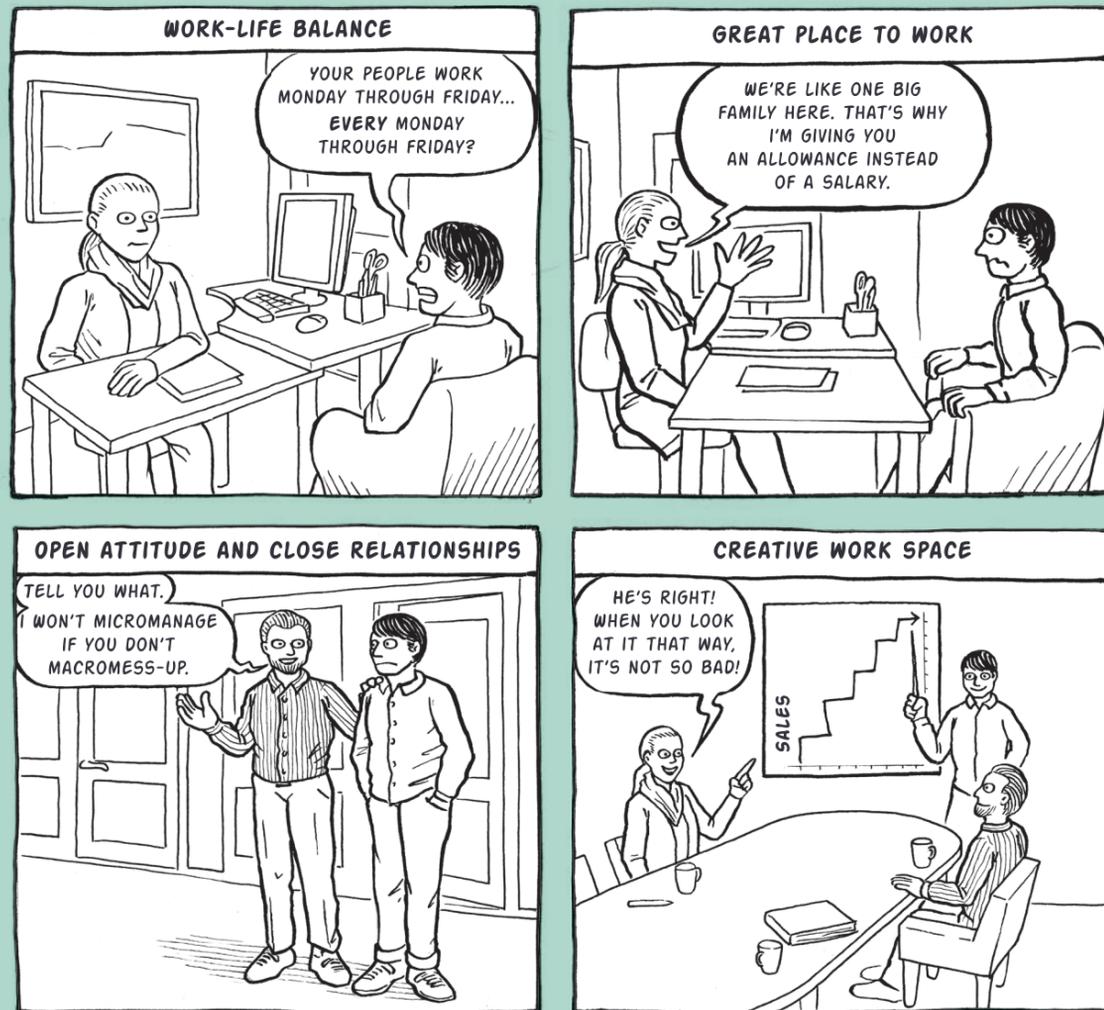


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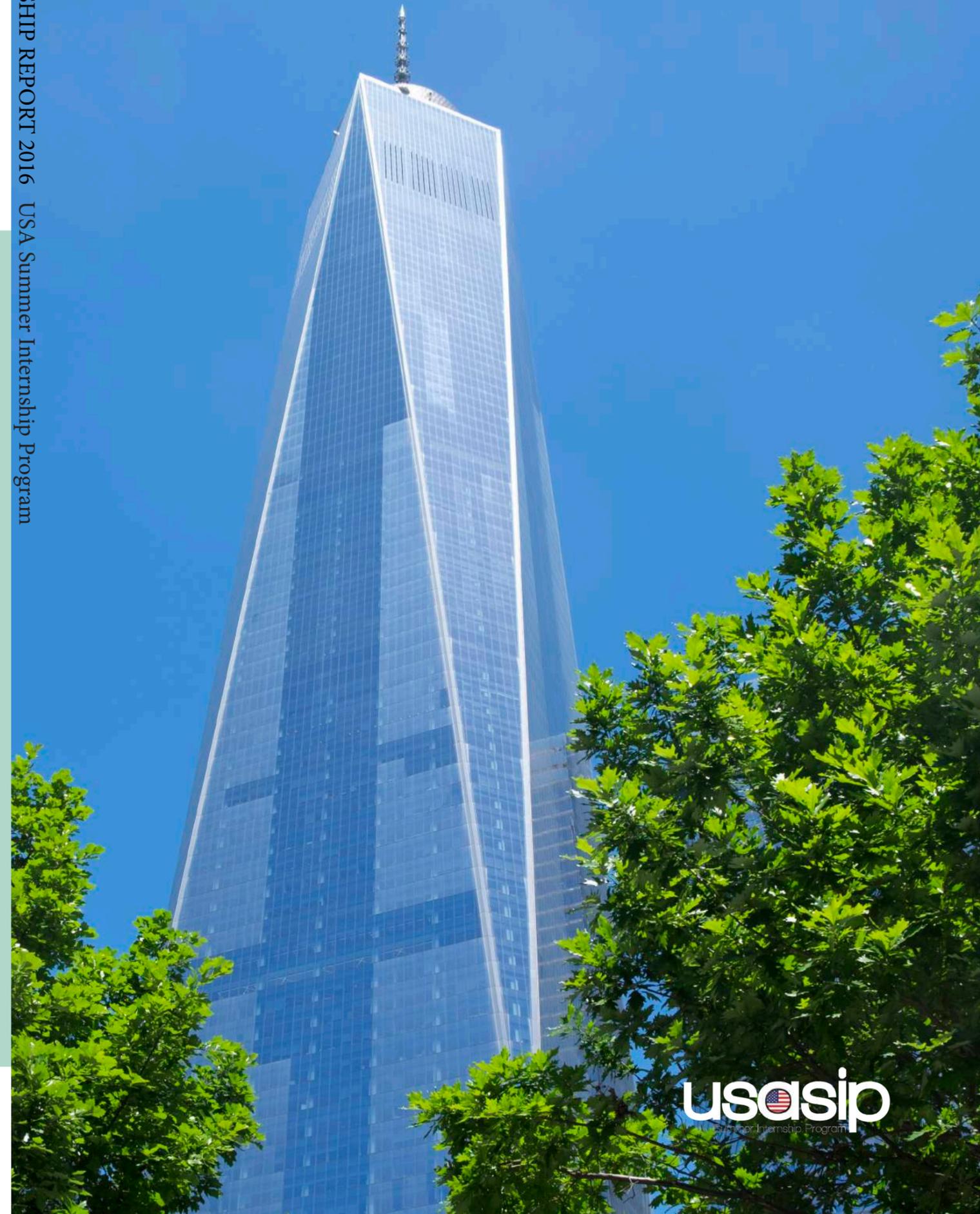
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INTERNSHIP REPORT 2016 USA Summer Internship Program

# INTERNSHIP REPORT 2016



# EDITORIAL



Elin Franzén, Editor of USA Summer Internship Program 2016.

Photo: Linda Haglund

After a year filled with many hours of hard work, the view of the New York skyline almost seemed to be a dream when we drove towards Manhattan on our first night in North America. Together with 26 other students, I had now finally reached my first destination! We would spend three days together in the city that never sleeps before the real adventure started. I do not think this summer could have begun in any better way!

My journey to North America began more than a year ago, when I decided to apply to the board of USA Summer Internship Program. The year has included many hours of work, but also and more important, many opportunities for joy and laughter and a number of new friendships were made. I could never have guessed how much I would learn and how many wonderful people I would get to meet before I even started my internship! I am grateful to the other members of USASIP for making this year wonderful! A special thanks to the board members for all the support and beautiful memories. Somehow, we have made it through the year and now we are 27 students spread across North America, enjoying our internships here.

In the Internship Report in your hand you will find pages of inspiring stories from all of the interns across the continent, interesting statements from the President and CEO of Chalmers and the CEO of AstraZeneca as well as the Swedish ambassador in Canada and many ads from the supporting companies. I hope that the report will inspire you to go out of your comfort zone and search for new adventures and that you will enjoy reading it.

I would like to thank all those that has contributed to this report. On behalf of USASIP 16, I would like to thank all of the sponsors and the hosting companies for believing in cultural exchange, you are vital for making our program possible.

Thank you,  
*Elin Franzén*

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# ABOUT THE PROGRAM

## USA SUMMER INTERNSHIP PROGRAM

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 USASIP will be able to complete a great portion of that time and many will even extend that time by far. But there is an added value in the 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 certainly not least they also contribute to maintaining important relations between different cultures and countries.

Starting in the summer of 2016, the members of the USASIP, worked for companies in the US and in 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. Please read the students' reports in following

pages for details about their internships and experiences in North America.

This year our organization, which has existed for more than 50 years, consists of 27 students at Chalmers University of technology of which 21 are members and six are 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* finds and 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 creating the

website and posters as well as designing and producing this annual Internship Report.

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

This summer, the whole experience started with a fantastic weekend in New York City. During the weekend, everyone had free time to spend as they wanted in the city, and they also had the opportunity to do go to a Yankees game or visiting a Comedy Club show. The last night we had a farewell dinner where we all went out to eat dinner together at a restaurant.

### 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 North America can apply.

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

All in all, we, the members and board members of the USASIP 2016, are extremely 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 that 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 and take this once in a life chance for an amazing experience!

*Sincerely,*  
*USA Summer Internship Program 2016*

### 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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## Vi driver utvecklingen av hållbara och attraktiva campus på Chalmers.



Chalmersfastigheter driver utveckling av hållbara och attraktiva campus på Chalmers tillsammans med och för Chalmers Tekniska Högskola.

Vårt mål är att göra Chalmers, och deras campus, till världsledande med så lite avtryck som möjligt i ekologi och ekonomi samtidigt som vi maximerar välbefinnande och sociala värden.

Eller ännu enklare – vårt mål är att Chalmers ska vara en hållbar mötesplats med global attraktionskraft.

Följ oss i vårt arbete på [chalmersfastigheter.se](http://chalmersfastigheter.se)

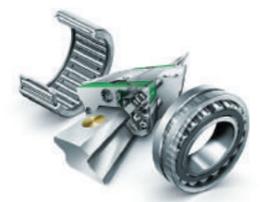


## Verkliga partners är utvecklingspartners

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 fäds 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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# VOICES OF SUPPORT

## FROM THE PRESIDENT OF CHALMERS

STEFAN BENGTTSSON

PRESIDENT AND CEO OF CHALMERS UNIVERSITY OF TECHNOLOGY



Stefan Bengtsson, President and CEO of Chalmers University of Technology.

## Chalmers' international outreach

At Chalmers our vision, Chalmers for a sustainable future, permeate all our activities. This require us to be both locally and globally connected and engaged. As a consequence international networking, collaboration and exchange are key priorities, in education, research and innovation.

Chalmers alumni will have their future careers in diverse and internationally connected companies and organizations. Hence, developing and supporting activities providing Chalmers students with international outlook and experience as an integrated part of their Chalmers education are essential.

USASIP is a student led and organized activity providing Chalmers students the possibility to gain international and industrial experience through an internship period at a company in the US or Canada. The organization committee need support from companies and other organizations to make the program a continued success. The program is an important actor in providing opportunities for international experience to Chalmers students and I fully support the USASIP 2016 program.

# VOICES OF SUPPORT

## FROM A CURRENT LEADER

JAN-OLOF JACKE

CEO OF ASTRAZENECA

## AstraZeneca

is a global, science-led biopharmaceutical company that focuses on the discovery, development and commercialisation of prescription medicines, primarily for the treatment of diseases in three main therapy areas – Respiratory and autoimmunity, Cardiovascular and metabolic diseases, and Oncology. We are also active in inflammation, infection and neuroscience through collaborations. AstraZeneca operates in over 100 countries and its innovative medicines are used by millions of patients worldwide. Research is the key to the success of AstraZeneca and in 2015 the company spent 5.6 billion USD on research and development. AstraZeneca has sales in more than 100 countries, manufactures in 17 countries and employs some 61 500 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 USASIP 2016.



Jan-Olof Jacke, CEO AstraZeneca Sweden AB.

# THE YEAR OF USASIP 2015-2016

## MAY 2015

This years organization was started up and members were elected. We celebrated this with eating pizza together!



## SEPTEMBER 2015

We went to Stockholm, the capital of Sweden, for a kick-off with the group and for sales meetings.



## NOVEMBER 2015

We celebrated Thanksgiving by having a delicious meal together at GBF, Göteborgs byggmästare förenings, facilities.



## DECEMBER 2015

The members of the board invited the members to their respective home for a home crawl.

## JANUARY 2016

Some of us met up to play Beach-volleyball together and we pretended that we were on a beach in North America.



## FEBRUARY 2016

The board invited students from the earlier years in USASIP to a nice party with the members of USASIP 16. We shared a nice meal that was followed with a fun beerpong tournament.

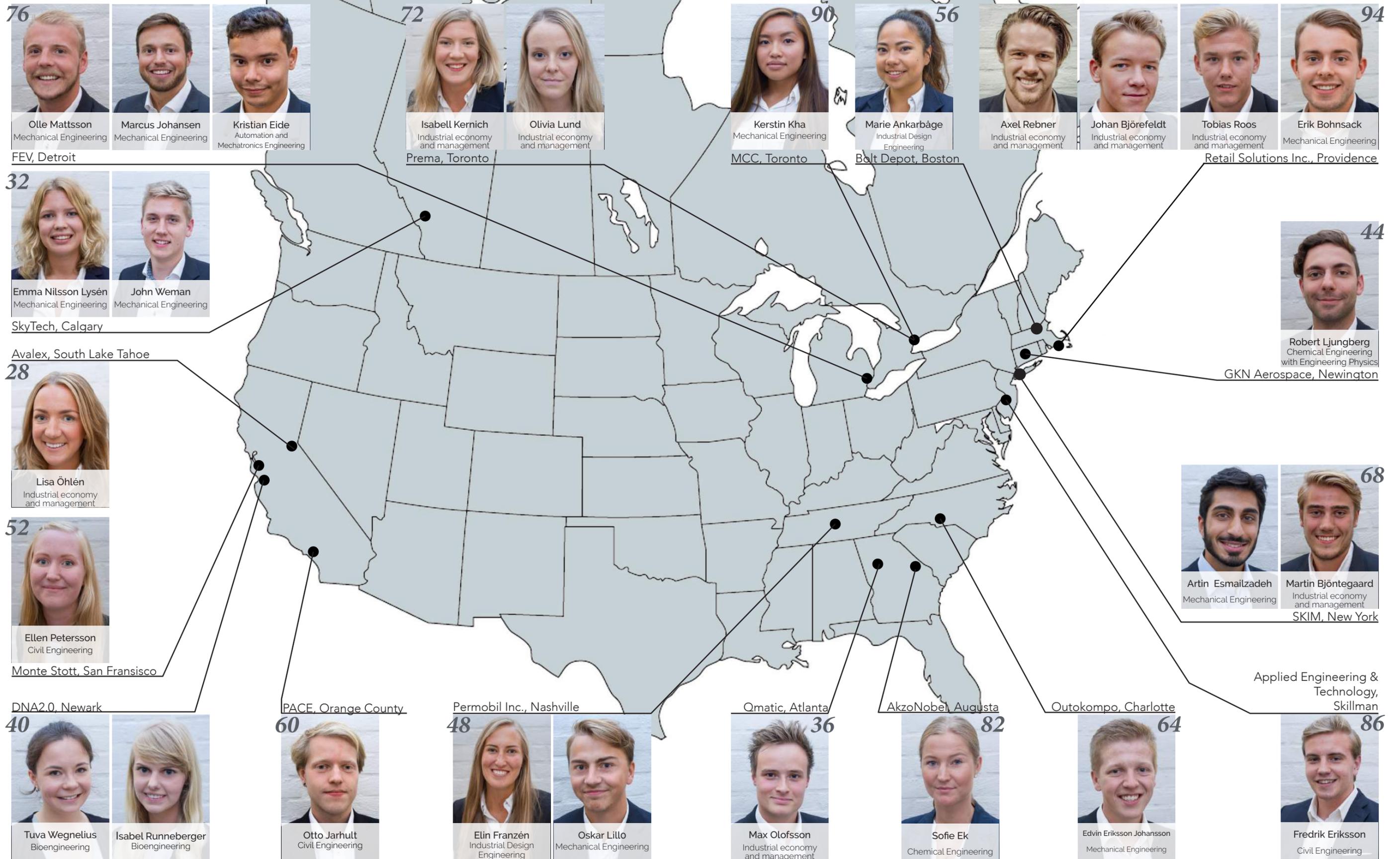


## JUNE 2016

We started our experiences in North America with a kick-off in New York City! An amazing weekend to start off the great internships!



# INTERNSHIP PLACEMENTS



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# WORDS FROM THE CHAIRMAN

## ERIK BOHNSACK

# AN UNFORGETTABLE ADVENTURE ACROSS THE ATLANTIC

Here we are, 27 Swedish students from Chalmers University of Technology, spread out across North America. As every day passes, new experiences unfold, whether if it's in New York City, California, Toronto or somewhere else. After more than a year of determination and dedication on home soil, the North American adventure stood right upon us.

The past year, leading up to our departure, has been anything else but dull. Coming in to the year, I expected that a year of hard work would take us here. What I did not expect was the incredible amount of inspiration and immense amount of fun that would be experienced along the way. Countless of meetings, phone calls and tough situations took us here in the end and I'm extremely grateful to have experienced it with friends whom I value highly.

The USA Summer Internship Program 2016 first gathered in the spring of 2015, where the goal was clearly decided. The members were, by June of 2016, supposed to start respective internships somewhere in North America.

In mid September 2015, the journey towards North America started for real. The members travelled to Stockholm, where business met pleasure. For two days, the members made their way around Stockholm to meet with potential sponsors during the day, while spending quality time with each other in the evenings.

A lot has happened from the time of that weekend in Stockholm to where we are right now. Many partnerships with Nordic companies have been acquired, which is a vital part of the association, as it finances our non-profit organization. It is inspiring to realize that corporations believe in our organization and our goal, and thereby support us. Make sure to check them out throughout the magazine. Besides the more local partnerships,

partnerships have been made across the Atlantic. Ellen and Robert, our Internship Coordinators, have spent many, due to the time difference, late nights reaching out to attractive employers in North America. In the end, we can proudly say that we have 27 students placed all the way from San Francisco in the west, Atlanta in the south, Boston in the east, to Calgary in the North.

In February we hosted an Alumni dinner, where both the current members and USASIP alumni sat down for a lovely dinner. Despite reading our previous Internships reports several times, it was at this dinner that I first realized what our organization has really meant to people in the past. The USA Summer Internship Program has since 1963 given over 1000 students from Chalmers University of Technology the extraordinary chance of cultural exchange and international work experience. USASIP has over these 53 years grown a strong foundation, which is the cornerstone of today's organization. We would not have come as far if it were not for the incredible work that the earlier members of USASIP have accomplished.

Even with our impressive past it would be a lie to state that our organization is perfect, but despite this, my

impression of what the future holds is very bright. I hope that the future members feel the same entrepreneurial spirit that a smaller organization filled with ambitious people oozes, as I have felt. With that spirit, it is surprisingly inspiring to put down the hours to make a change for the better. I'm grateful to have been a part of this organization and I look forward to following its development for the years to come.

I would like to thank the members and the board of USA Summer Internship Program 2016 for showing invaluable determination and constantly putting down the hours needed. We would've never made the journey if it were not for you.

I would also like to extend my sincerest gratitude towards both our Swedish and North American sponsors. Your encouraging support makes it possible for us to reach our goals and fulfill our dreams. By supporting us you invest in future engineers, who will be returning home with international experience, priceless for their future careers. An extra thanks to the administrators at Chalmers University of Technology, Tatiana Pashman at the American Scandinavian Foundation and the U.S. Embassy of Sweden, you are a vital part of our success.



Erik Bohnsack, Chairman of USA Summer Internship Program 2016.

# IKEM tar Sverige till världen

## INVEST IN SWEDEN SATSAR PÅ BIOEKONOMI

*Business Sweden satsar nu genom Invest in Sweden på att attrahera investeringar i bioekonomi till Sverige. Det betyder att det nu finns ett nätverk av experter som bearbetar investerar. På plats i USA finns Hampus Nilzon (längst till vänster på bilden) som jobbar med att bearbeta amerikanska investerar att få upp ögonen för svenska kemi- och life-sciencebolag.*



Till hösten planeras en studietur till IKEM:s medlemsföretag för att Hampus och hans kollegor ska få en bättre förståelse för våra verksamheter.

– Så himla roligt att Business Sweden gör en sådan här satsning, det behövs. Investerar satsar gärna på områden de är vana vid så ju fler som känner till IKEM:s medlemmar desto större är chansen, säger Nils Hannerz, ansvarig för bioekonomi.

Hampus Nilzon träffade IKEM vid World Biotech-konferensen i USA i veckan. Där samlas industrifolk och diskuterar. Vad gäller bioekonomi

diskuteras hur företagen ska hitta rätt business case när oljepriset är så lågt. Men investerarna på plats har haft fullt upp trots lågt oljepris.

En som passade på att leta investering var Martin Karlsson, VD för Inzymes Biotech från Linköping (i mitten på bilden).

– De investerar jag träffat gillar våra patent men vill att vi ska bli lite större för att de ska vara intresserade, säger Martin Karlsson. IKEM hoppas att hans företag blir medlem i IKEM.

Nyheter av intresse är att investeringar i biobaserade kemikalier under 2015 ofta handlar

om plast enligt Lux Research som samlar data om investeringar. Fordonsindustrin och elektronikindustrin har blivit mer intresserade senaste året, efter relativt svalt intresse tidigare. Det pratas också en del om BASF:s investering i PEF tillsammans med ett holländskt bolag. Målet är att ta fram en 100% förnybar dryckesflaska för CocaCola, där PEF ska ersätta PET. Personal Care och marknaderna för lukter och smaker för livsmedelsindustrin väcker intresse.

– Det sker en stark utveckling mot att automatisera labarbetet för att hitta rätt bioteknik för en viss kemikalie. Ofta med genteknik. Du kan få tillgång till rätt grejer snabbt som företag. Mycket av leveransen sker över nätet så att ett företag kan börja planering direkt, sen kommer bakterier eller enzymer inom ett par veckor. Det verkar pågå en kraftig automatisering och digitalisering av utvecklingen, säger Nils Hannerz.

Amerikanska jordbruksdepartementet, USDA, var på plats och pratade om sitt upphandlingsprogram för biobaserade produkter. De har nu leverantörer från 32 länder som har ramavtal med amerikanska myndigheter i BioPrefferd-programmet. IKEM:s medlemmar kan gå in på BioPrefferd-programmets hemsida och

påbörja processen att bli leverantör.

– Säljer du produkter, även med mindre mängder förnybart, tror jag att det kan vara ett enkelt sätt att börja komma in på den amerikanska marknaden. Det kan vara enkla plastsaker, som mobilskal och plastmuggar. Det är en möjlighet för IKEM:s medlemmar, tycker Nils Hannerz.

Internt undersöker USDA hur de ska kunna konstruera inköpsavtal som riktar in sig på kemikalier som används längre bak i inköpskedjan, så kallade intermediärer, vilket kan bli en ökad marknad för baskemikalier.

– Jag önskar att EU kunde ha fokus på att skapa en marknad liknande den som finns i USA. Jag blir ledsen när jag hör amerikanska investerar säga att de har "rekryterat ett bra team från Europa som kan europeisk spetsteknologi" i sina presentationer. Vi måste ändra på utvecklingen att vi förlorar vår forskning. Men jag blir å andra sidan väldigt glad av Sveriges satsning på att locka investeringar genom Hampus Nilzon och hans kollegor, säger Nils Hannerz.

IKEM diskuterar nu med Business Sweden om att ordna en studieresa för deras team av bioekonomi-experters så att de får besöka en del av IKEM:s medlemsföretag.

---

**IKEM – Innovations- och kemiindustrierna i Sverige företräder svenska och utlandsägda företag med gemensam vision för hållbar tillväxt: att utveckla industriella lösningar till de globala samhällsutmaningarna. Kraften att lyckas är det som förenar våra 1 400 medlemsföretag med 70 000 medarbetare inom kemi, plast och materialbranscherna. Möjligheterna är gränslösa – en bransch- och arbetsgivarorganisation med internationellt perspektiv är därför nyckeln till framgång. För våra medlemmar och för Sverige som investeringsland.**

**IKEM**  
Innovations- och kemiindustrierna i Sverige

# WORDS FROM THE AMBASSADOR IN

# CANADA

## PER SJÖGREN

SWEDEN'S AMBASSADOR IN CANADA

As Swedish ambassador to Canada my role is to promote the relations between Sweden and Canada through establishing contacts for business, trade, culture and political affairs. As an intern in North America you will be an active representative both for Chalmers University and for Sweden, contributing to building the future bilateral partnership between Sweden and Canada.

Sweden's relations with Canada have historically been very strong and continue to develop both bilaterally and in international fora. More than 100 Swedish companies are present in Canada employing thousands of Canadians. Bilateral trade relations are substantial and expanding in many areas, not least regarding advanced technology, research and development. And of course our two countries share a passion for hockey with great Swedish players like Mats

Sundin and Daniel Alfredsson having had successful careers with Canadian teams.

The recently negotiated Free Trade Agreement between Canada and EU (CETA) provides an opportunity to further increase political, business and trade relations. After ratification CETA would, for example, lead to the removal of more than 90% of trade tariffs as well as improve labour mobility and promote mutual recognition of professional qualifications and diplomas. In short, it would be significantly easier for Swedes to live and work in Canada, including for students interested in innovation, green technology and science, which are key areas of the Canadian economy.

As interns in Canada you will gain invaluable work experience in your different fields. You will also have the opportunity to learn

from another culture as well as establish professional networks for your future careers. As highly qualified students you will undoubtedly make a significant contribution to the companies where you will work.

Sweden and Canada share many common goals and priorities in domestic and international politics. For example, we were among the driving voices during the COP21 climate negotiations in Paris this winter. Both countries have large innovation industries that are leading in green technology and sustainable solutions.

Finally, I want to encourage you to make the most of this experience and to keep in touch with employers, friends and colleagues in North America after your return to Sweden.

I wish you all good luck and a fantastic time here in Canada! Do not hesitate to contact us at the Embassy during your stay in this great country.

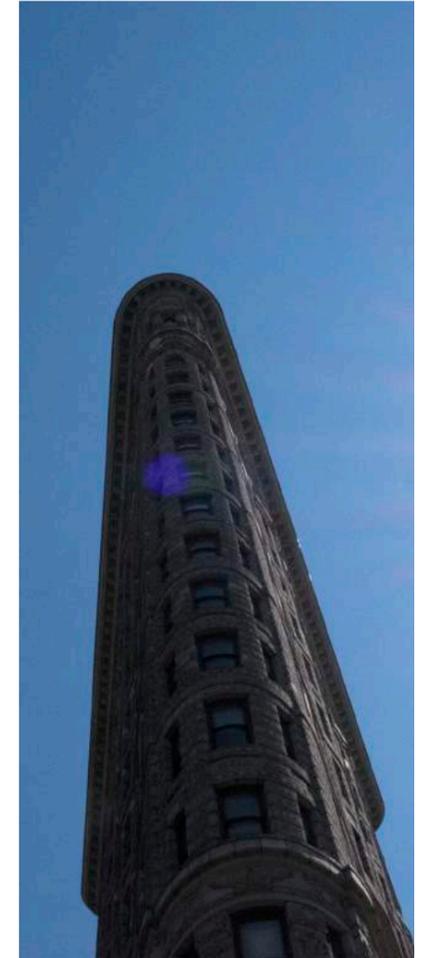
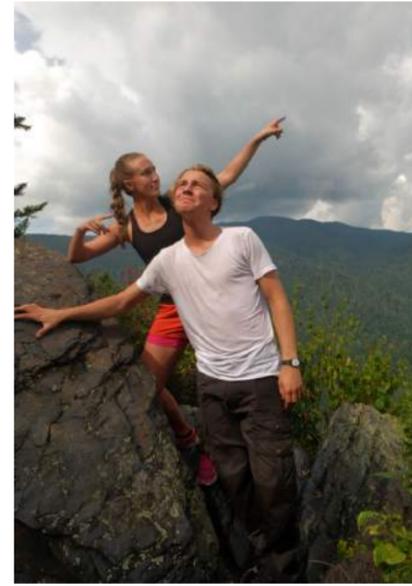
*Per Sjögren*  
Ambassador



Ambassador Per Sjögren.



#usasip16





**“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  
[www.chalmers.se/tme](http://www.chalmers.se/tme)



**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.

We offer master’s programmes in:

- Entrepreneurship and Business Design
- Management and Economics of Innovation
- Quality and Operations Management
- Supply Chain Management

The education at Chalmers was ranked first in Europe in the International Student Barometer 2013 where 150 000 students from all over the world voiced their opinions.

Visit our website for more information 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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Hiking up Mount Tallac, almost 10 000 ft above sea level.

# HIGH ALTITUDE ENGINEERING BY THE LAKE OF THE SKY

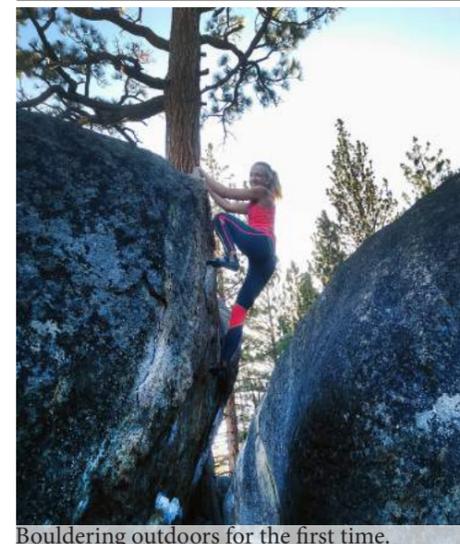
*Doing an engineering internship during the week and living an adventurous dream on the weekends. This perfect mix is a unique opportunity and I have to pinch my arm every morning to make sure I'm not dreaming.*

I would lie if I said I wasn't feeling sad, sitting all alone at JFK airport, leaving all my friends in the USASIP after some amazing days in New York City. Taking off towards the unknown, the small forested mountain town of South Lake Tahoe in northern California's Sierra Nevada mountain range. What could I expect? Had I made a mistake taking a year off to go there?

The moment the plane landed I realized my anxiety was unnecessary. It immediately felt like home. The next day I woke up to a beautiful blue sky and the wonderful aroma of a seemingly endless forest of pine trees. I shortly went to meet my new roomies, two amazing American girls which I now share an apartment with. One of them took me to a beautiful beach and while I was sitting there in the sun watching the big blue lake and the snowy mountains I couldn't help but feel that this was the best decision I've made in my life.

*"I'm in adventure heaven, Americas year around playground"*

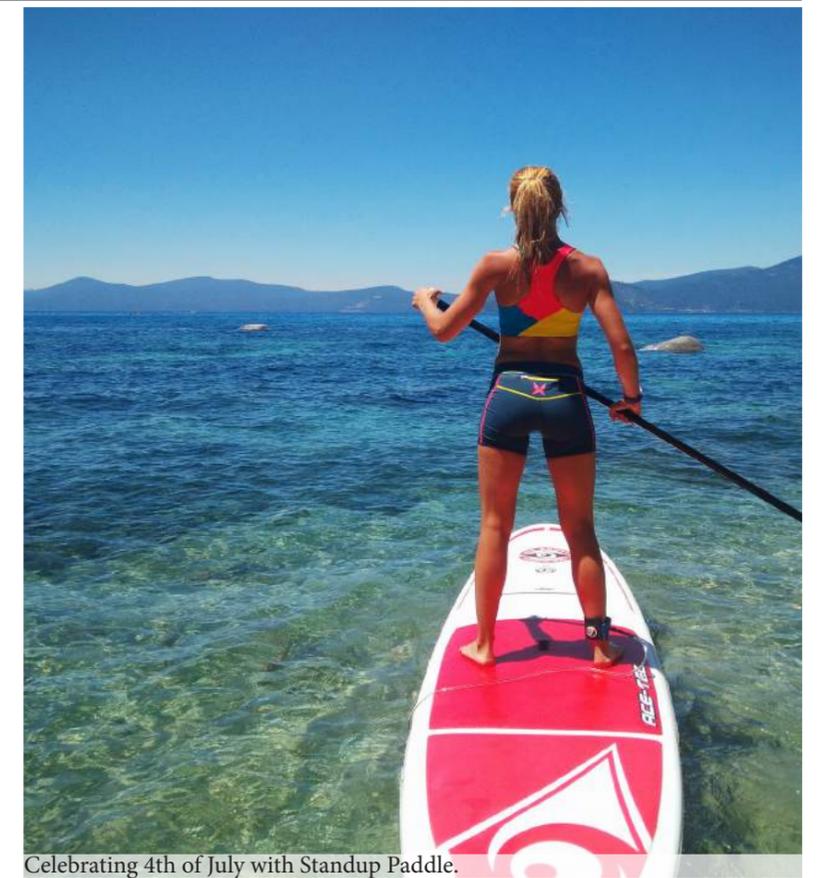
Avalex Inc. is a consulting firm that offers Civil Engineering and Environmental Services in California and Nevada. The company was founded 25 years ago by president Craig Morgan, a licensed professional civil engineer. The vice president, Michaela Morgan, who is originally from Sweden and has a master's degree in Civil Engineering from Chalmers University of Technology, works closely with Mr. Morgan. Avalex is performing projects that are related to any concern regarding water, such as landfill engineering and design, water quality monitoring and AutoCAD drafting and design.



Bouldering outdoors for the first time.



Mr. Morgan during groundwater sampling.



Celebrating 4th of July with Standup Paddle.

During my first time here I've been working on several different projects. One of my first field days was a beautiful three hours drive north of Lake Tahoe to Sierra County where we did some ground water sampling of a contaminated area. I took the results and data from this event and later updated in tables, performed statistical calculations, drafted figures in AutoCAD and eventually compiled a report to be submitted to the County. Avalex is a small firm, placing a lot of responsibility on my position and in turn allowing for a flexible schedule. Working extra hours one day allows me to Kayak Lake Tahoe on lunch break or finish early to go mountain biking the other day.

Almost one month has passed since I moved to South Lake Tahoe and there hasn't been one single day or evening spent home alone doing nothing. The city

is surrounded by beautiful beaches and high mountains. I've been river rafting, standup paddling, hiking, wakeboarding, rock climbing, watched the sunsets over the lake and visited the beer gardens with live music at the beach. I'm in adventure heaven, Americas year around playground, and there is still no doubt that it was the right decision to move here.

I want to thank Craig and Michaela for the warm welcoming and the amazing opportunity to work at Avalex. I am extremely grateful. I also want to thank all the members and the board of USASIP for a fantastic year, you are the best.

**Avalex Inc.**

**Founded:** 1991 | **Employees:** 3 | **Hosting Interns since:** 2009 | **Area of business:** Civil engineering and Environmental Services | **Website:** www.avalex.info

**Lisa Öhlén**

**Born:** 1988 in Östersund, Sweden | **Present education:** B.Sc. in Industrial Engineering and Management  
**Future plans:** Future will tell. | **Best memory:** The thrill seeing a bear walking on the street when I was on my way to work. | **Worst memory:** Realizing I signed up for a Lake Tahoe Marathon in October.



Sök efter lediga tjänster, eller ladda upp ditt CV på [xylem.com/jobbahososs](http://xylem.com/jobbahososs)



# TÄNK DIG ETT JOBB DÄR VARJE DROPPE GÖR SKILLNAD

En effektiv lösning för vattenförsörjningen i Mexico City. Länsumpning av världens djupaste guldgruva i Sydafrika. Ett nära samarbete med Hammarby Sjöstadsverk - Sveriges ledande forskningsanläggning för återanvändning av vatten. Över hela världen finns Xylem på plats för att hjälpa människor att använda varje droppe vatten mer effektivt.

Vi är ett världsledande företag som utvecklar pumpar och system för att transportera och rena vatten. Bland våra många varumärken är Flygt det mest kända i Sverige, med tillverkning i Småland sedan mer än 110 år.

Hos oss finns goda karriärmöjligheter - både i Sverige och globalt. Gå in på [xylem.com/jobbahososs](http://xylem.com/jobbahososs) och sök efter lediga tjänster, eller ladda upp ditt CV.

[xylem.com](http://xylem.com)

**xylem**  
Let's Solve Water

**xylem**  
Let's Solve Water

## Xylem är världsledande inom vattenteknologi

**Redan 1947 uppfanns den första dränkbara länsumpen. Xylem har en lång historia av stark innovationsanda. Den globala koncernen har en stor avdelning för forskning och utveckling i Sverige som sysselsätter drygt 150 ingenjörer.**

Teknikföretaget Xylem har sina rötter i en liten bysmedja i Emmaboda som startades 1901 och finns i dag i över 150 länder med drygt 12 900 anställda, varav drygt 1 700 i Sverige. 2014 var Joel Björkman en av fyra studenter som deltog i ett sommarprojekt som innehöll både produkt-framtagna och affärsutveckling. Det ledde till en anställning och sedan drygt ett halvår är han utvecklingsingenjör inom hydraulik på forsknings- och utvecklingsavdelningen. Han gör komplicerade beräkningar och simuleringar och agerar support kring hydrauliska frågor åt kollegor världen över.

- Hydraulik är kärnan när det gäller vatten och teknik. Jag är en del av designteamet som till exempel utvecklar propellrar så att man får den prestanda man vill ha.

**JOEL BESKRIVER XYLEM** som ett tekniskt kompetent företag som har stort fokus på innovation och problemlösning.

- Här finns en stark innovationshistoria och framåtanda och man sätter väldigt stort fokus på att komma på nya idéer och lösa saker själv. Man låter sig inte begränsas, utan man försöker kontinuerligt hitta lösningar och nya produkter som man tror att marknaden vill ha. När det inte finns något befintligt program som löser ett problem, då får du skapa ett nytt. Det finns en kultur och en väldigt stark drivkraft att röra sig framåt. Det som förvånade mig är att vi är världsbäst på vårt område, men att företaget trots det inte är allmänt känt. Vi var alla först med dränkbara pumpar, med tätningar som gjorde att vattnet inte åkte in i den elektriska motorn. Det var dem man byggde upp sin storhet kring.

Sommarjobbet, Xylem Summer Internship, gav mycket frihet under stort ansvar. På nio veckor skulle fyra studenter undersöka möjligheten att konstruera en fiskvänlig pump och få den marknadsmässigt intressant.

- Vi var två studenter med marknadsperspektiv och två med tekniskt perspektiv och vi lyckades göra den första preliminärstudien till det högprofilerade projektet. Det var väldigt roligt och vi trivdes väldigt bra.

**FÖR JOEL ÄR** det de dagliga utmaningarna och det stora personliga ansvaret som väger tyngst och som gör att han känner att han hittat rätt på arbetsmarknaden.

- Direkt när jag började på Xylem fick jag ta stort ansvar i ett flertal produktutvecklingsprojekt, med stöd från mitt team såklart. För mig



Joel Björkman  
Text: Tina Lindström Carlsson Foto: Kristofer Hedlund

**Titel:** Research Engineer, Hydraulics.

**Utbildning:** Civilingenjör inom maskinteknik, examen 2015.

**Vad gör du på fritiden?** Musik har alltid varit mitt stora intresse och dosen av det tekniska får jag på jobbet. Jag spelar gitarr och gick på musikgymnasiet i Boden men gled därefter in på den tekniska banan. Jag tror att det är bra att ha två världar som motsatser, de gynnar varandra.

**Xylem**  
Xylem är ett internationellt företag som erbjuder integrerade lösningar för vätskehantering. Xylem tillhandahåller ett samlat utbud av produkter och lösningar från våra globalt ledande varumärken såsom Flygt, Godwin, Leopold, Sanitaire och Wedeco.

**Antal medarbetare:** Cirka 2 000 i Sverige och 13 000 globalt.

**Medarbetarnas bakgrund:** Xylem strävar efter en bra mix av erfarna och nyutexaminerade personer. Kompetenser inom bland annat teknik, ekonomi, IT och marknadsföring eftersöks. Kontakt: [xylem.com/jobba-hososs](http://xylem.com/jobba-hososs)

var det förvånande och väldigt positivt med så stort ansvar direkt. Jag lär mig väldigt bra på det sättet, att göra saker själv. Min avdelning har till exempel tagit fram ett mycket effektivt självrensande pumphjul som är överlägset på marknaden. Vårt team arbetar även med supportfrågor och har kontakt med kollegor från hela världen, det är riktigt kul. Det är ett utmanande och ganska svårt jobb och samtidigt har vårt team stor frihet och för mig är det väldigt viktigt.

[xylem.com/jobbahososs](http://xylem.com/jobbahososs)



Our colleagues and us posing outside our office.

## SKYTECH SOLUTIONS: WHERE THE SKY IS NOT THE LIMIT

*Located within sight from the rocky mountains and with a size comparable to New York, Calgary is a fascinating hub for friendly people and their pickups. Going anywhere further than to your closest neighbor without driving is out of the question, except for the two biking interns from Sweden.*

After an almost six hour long nervous flight from New York we finally arrived to Calgary Airport. We were pretty late and had received the information that we were going to be picked up by the owners of a homestay company, which was arranging our new homes for the next six months. The welcoming was outstanding including handwritten signs with our names on and warm hugs, which started of our journey here in Canada.

Living in a homestay gives the opportunity to experience the culture of a Canadian family, as well as the cultures brought from our homestay siblings with origins from all over the world. Our way to contribute was to invite everyone to celebrate midsummer with traditional Swedish food, drinks and “snapsvisor”. It was a new experience celebrating the holiday without family and friends but as much fun to teach our new friends some of the strange traditions we have back in Sweden.

*“our temporary office will be located in Banff”*

The main reason for our stay, however, is to work and we have definitely found an interesting place to do so. SkyTech Solutions is a relatively new company working with innovative remote sensing and data collection services. By using LiDAR technology in combination with advanced equipment, such as UAV’s or scanners mounted on vehicles, they are able to provide unique and custom solutions for their customers.

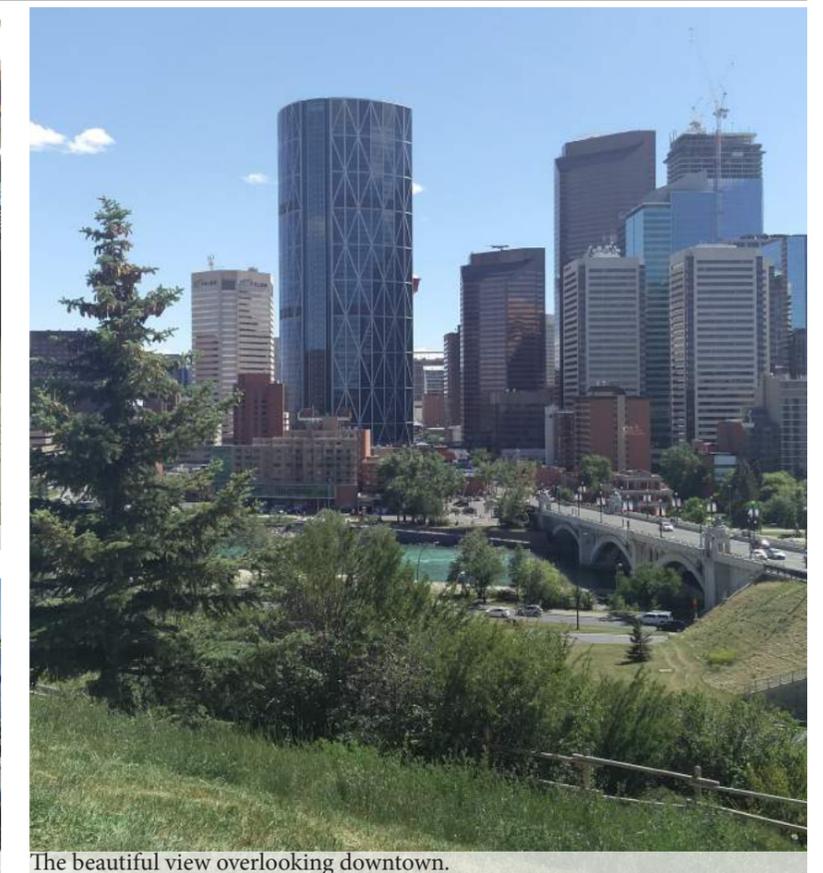
At the office we are only a handful of people working closely with different projects, which further



The warm welcome at the airport.



Boat surveying caught in action.



The beautiful view overlooking downtown.

contributes to the familiar welcome we have experienced here in Canada.

In the weeks we have been here so far John has been optimizing methods to process LiDAR data, while Emma has been working with business development. We have also been able to experience some of the beautiful Canadian nature in work and look forward to future projects when our temporary office will be located in Banff, enclosed by the majestic rocky mountains. It is truly an amazing experience to be a part of small, rapidly growing, company, as we get

to experience challenges in numerous areas of the company while our knowledge from university actually could make a notable difference for the future.

There is still much time left for us here in Calgary and more experiences are to come, both at SkyTech Solutions and on different adventures across Canada. We are very thankful to have been given the opportunity to live and work in Calgary and for the great hospitality and challenges we have met here so far.

### SkyTech Solutions Ltd.

**Founded:** 2014 | **Employees:** 5 | **Hosting Interns since:** 2016 | **Area of business:** Remote Sensing  
**Website:** www.skytechsolutions.ca

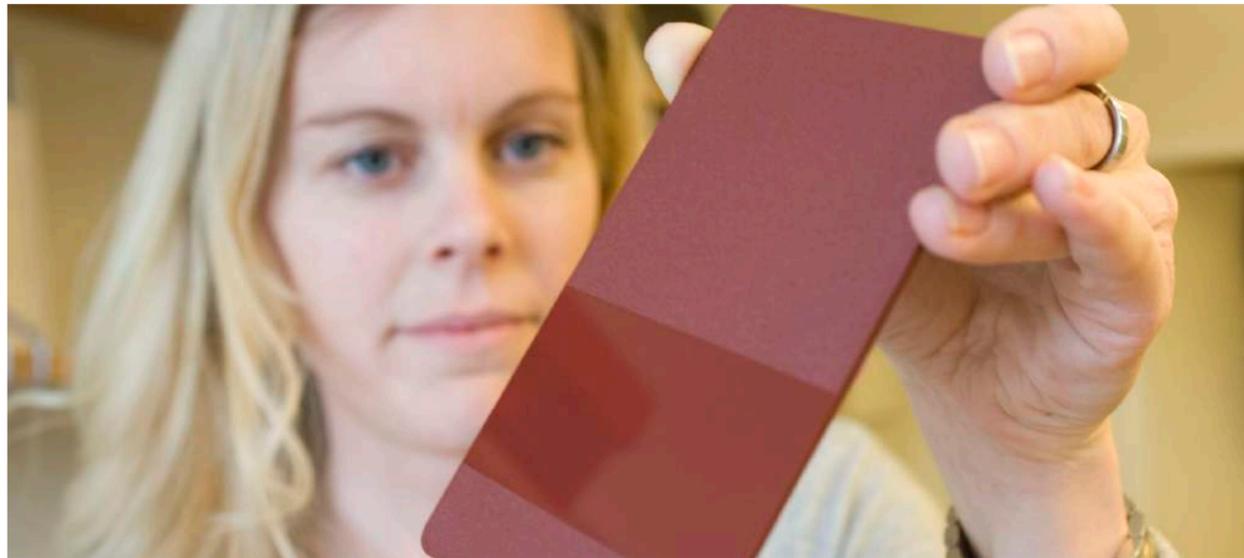


### Emma N. Lysén

**Born:** 1992 in Jönköping, Sweden | **Present education:** B.Sc. Mechanical Engineering | **Future plans:** Working, studying and travelling | **Best memory:** The kindness every Calgarian I met possess | **Worst memory:** The need to use a flashlight at night because of the lack of streetlights in my neighborhood.

### John Weman

**Born:** 1994 in Lerum, Sweden | **Present education:** B.Sc. Mechanical Engineering | **Future plans:** Traveling in Central America before going back home for master studies in Sweden. | **Best memory:** The unsuspectedly warm welcome at the airport after a long and tiresome flight | **Worst memory:** Learning the hard way that traveling by public transit is easier said than done.



## BECOME A DOCTORAL STUDENT

### MAKE A DIFFERENCE

**A** Chalmers doctoral position allows you to combine a career with a doctoral degree. Of course, Chalmers isn't your typical employer – as nearly a thousand doctoral students can testify. Wherever possible we like to integrate the needs of the world with both research and study. After all, we only have one Earth.

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.

### GET FINANCIAL STABILITY

**W**e believe that each doctoral student should be respected as an equal member of his or her research environment. One of the cornerstones for this respect is an adequate monthly income, which we choose to see as an investment opportunity. Firstly, it allows us to attract the best candidate to the programme. Secondly, we believe it enables our doctoral students to achieve better research – something that can do the whole world a favour.

### DEVELOP YOUR PERSONAL AND PROFESSIONAL SKILLS

**C**halmers introduced a package of courses in the field of “Generic and Transferable Skills” to ensure that, as a doctoral student, you are well prepared for your future career. “Generic and Transferable Skills” can be described as “personal and professional development” that is complementary skills that adds to your particular professional role. Most of the activities are elective to enable you as a doctoral student to develop individually according to your needs.

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Find more information about the application procedure at [www.chalmers.se](http://www.chalmers.se), vacancies.

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- PRODUCT DEVELOPMENT
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- SUSTAINABLE ENERGY SYSTEMS

\* 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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A LOVE OF SPORTS  
AN OBSESSION  
WITH SCIENCE  
AND TECHNOLOGY



Rooftop party in downtown Atlanta.

## A SUMMER IN THE EMPIRE CITY OF THE SOUTH

*With its 5,5 million metropolitan area and considerable cultural- and financial impact, Atlanta truly is the capital of the south and an amazing place to spend a summer in. My time with Qmatic has been an absolute blast and I have learnt a lot about how marketing departments, as well as how companies in general, operate.*

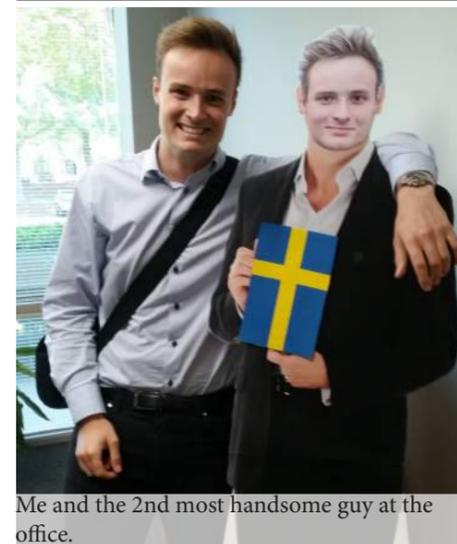
The first part of my US-summer was a lot of things. Organized, however, was not one of them. The whole adventure started off with my passport getting lost in the mail from the embassy, causing me to miss my flight to New York. Thanks to Roger, an everyday-hero at the post office, as well as a bit of luck I managed to catch a later flight that same day. After making it across the pond I embarked upon the next quest, finding a place to stay for the summer. The early mornings and various other spare-time in New York, where I spent my first weekend here, consisted of browsing through countless questionable Craigslist-ads and calling even more questionable characters, until finally gold was struck at Newark Airport 30 minutes before boarding the plane to Atlanta.

Heat, humidity and traffic. Those are three words closely related to Atlanta summers and are all aspects that takes a bit of getting used to. Once you do,

*“Aww man, you gon’ have a blast”  
(Airport Uber-driver)*

however, the city is absolutely fantastic. Whether strolling around Piedmont park, grabbing a drink in Buckhead or exploring the American history, every day in Atlanta is a new adventure and I certainly did not run out of things to do during my time here. I was fortunate enough to have a few Swedish friends scattered around the south and was able to hit the road during the weekends to further explore all of the glorious, and not so glorious, parts of the American South.

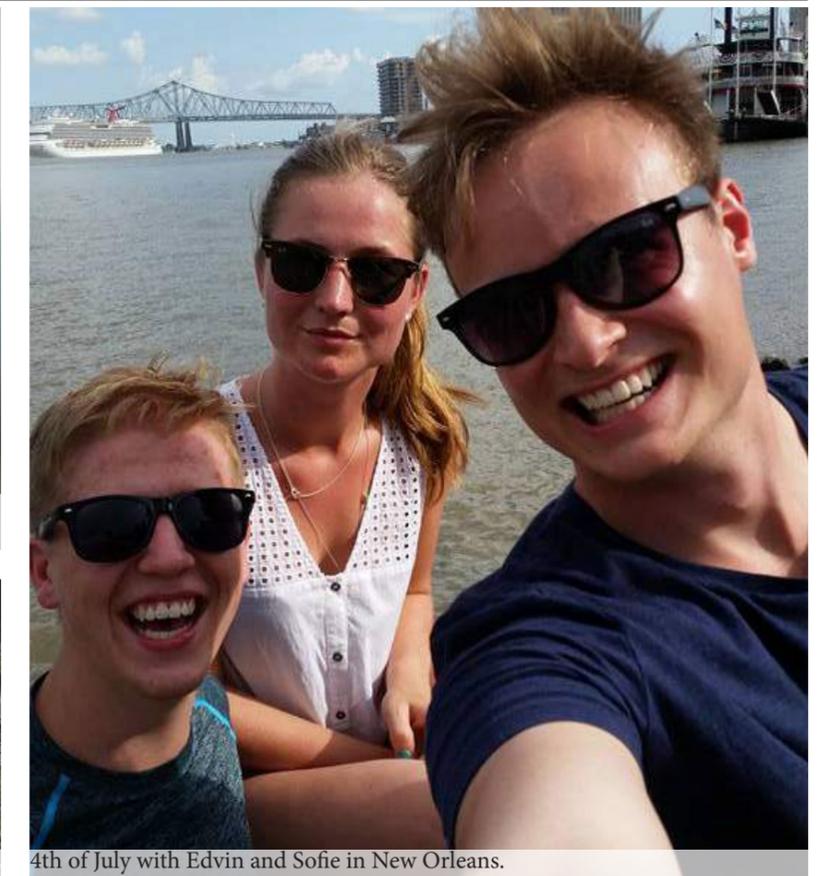
Qmatic is a provider of customer journey solutions, specialising in queue management. The product



Me and the 2nd most handsome guy at the office.



Waterfall-hike in Tennessee.



4th of July with Edvin and Sofie in New Orleans.

range consists of both hardware and software and are tools to help companies and organisations increase their efficiency and improve their customers experiences by reducing the time they spend waiting to be served.

During my time with Qmatic I have been in charge of a major research project that consisted of identifying key contacts within organisations across the country that were considered to be potential future clients. I have also been working on several smaller projects together with the marketing manager amongst areas such as campaigns, events and inbound marketing. My time with Qmatic has been extremely rewarding and I would like to extend my sincerest thanks to Jeff and Sven-Olof for making this amazing opportunity possible, Esther for being an awesome

mentor and the rest of the Qmatic crew for all the help and laughs you’ve brought this summer!

And to all of you potential future American Interns, I would like to finish off with a final word of advice concerning the logistical aspects of your stay. The US is not built for walking, and as long as you don’t live and work in the center of a major city, in one way or another you’re going to need a car. Make sure that the plan of acquiring one is well thought out before departing (including making sure you know the laws of the specific state you’re going to work in) and you will experience a whole level of freedom that I did not my first couple of weeks until I bought mine!

### Qmatic

**Founded:** 1981 | **Employees:** 300 | **Hosting Interns since:** 2016 | **Area of business:** Customer Journey Solutions | **Website:** www.qmatic.com



### Max Olofsson

**Born:** 1994 on Tjörn, Sweden | **Present education:** B.Sc. in Industrial Engineering and Management | **Future plans:** Joining the Swedish retail-mafia in Providence for a 6-month internship in the fall. | **Best memory:** Buying my first car. **Worst memory:** Finding out that my passport got lost in the mail, causing me to miss my flight to New York.



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

All programmes have close connections to the industry, as well as to cutting edge research performed at the department.

### Programmes at Chalmers:

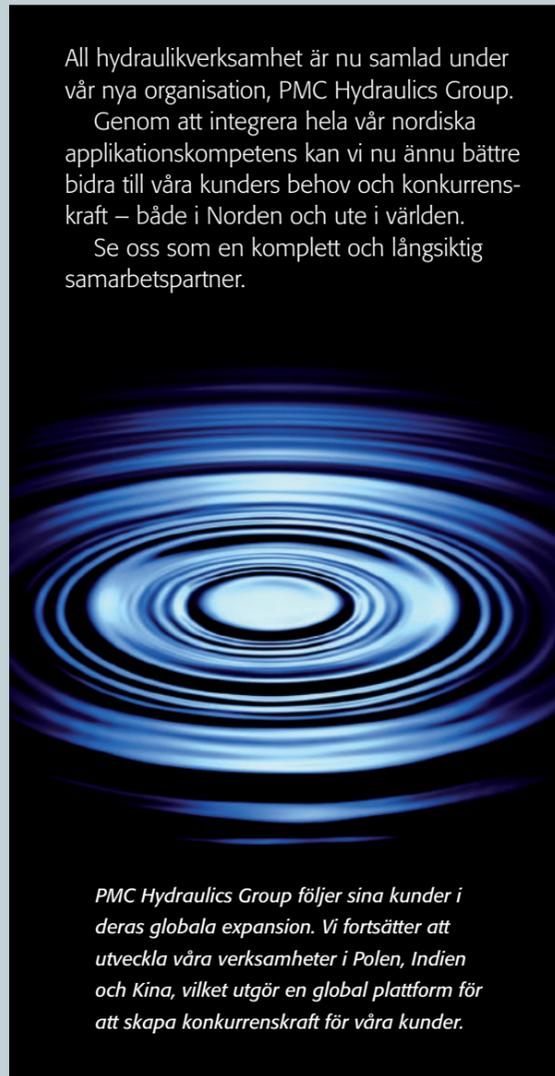
- Computer Science: Algorithms, Languages, and Logic
- Computer Systems and Networks
- Embedded Electronic Systems Design
- Software Engineering and Technology

### Programmes at University of Gothenburg:

- Applied Data Science
- Computer Science
- Software Engineering and Management

# Med Norden som bas och världen som marknad

All hydraulikverksamhet är nu samlad under vår nya organisation, PMC Hydraulics Group. Genom att integrera hela vår nordiska applikationskompetens kan vi nu ännu bättre bidra till våra kunders behov och konkurrenskraft – både i Norden och ute i världen. Se oss som en komplett och långsiktig samarbetspartner.



*PMC Hydraulics Group följer sina kunder i deras globala expansion. Vi fortsätter att utveckla våra verksamheter i Polen, Indien och Kina, vilket utgör en global plattform för att skapa konkurrenskraft för våra kunder.*

Välkommen till oss – som student, arbetssökande eller som nyfiken i största allmänhet: [www.pmcgroup.se/sv/karriar](http://www.pmcgroup.se/sv/karriar).

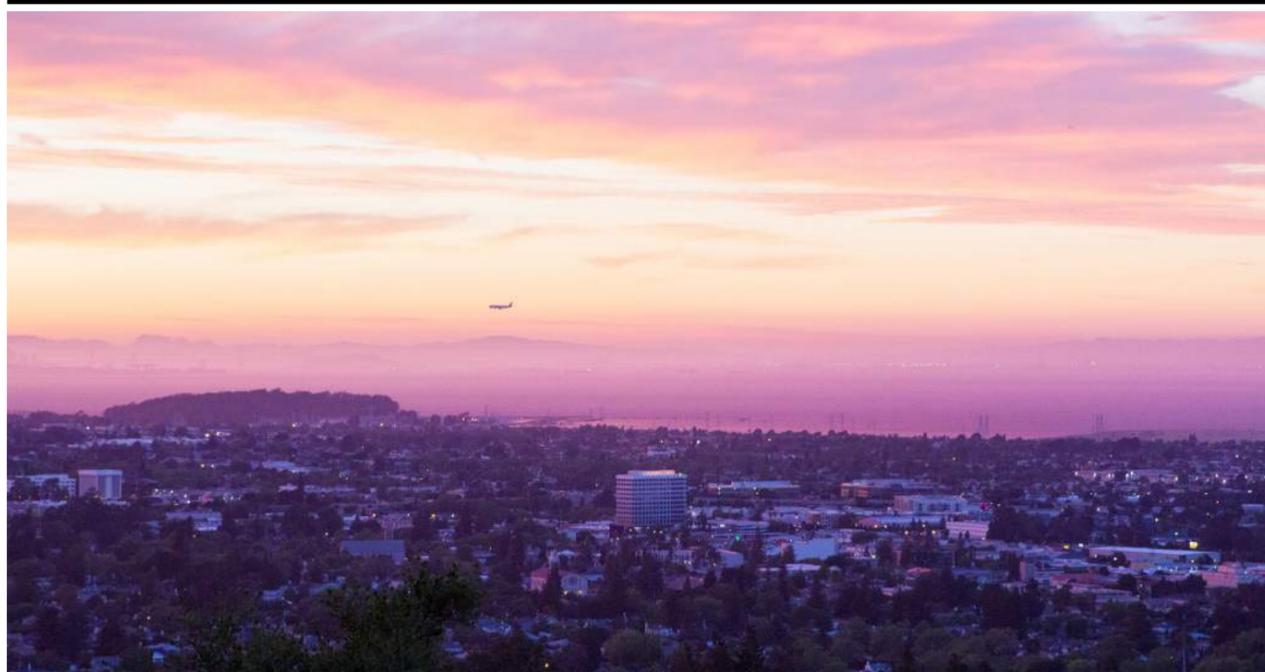
PMC Hydraulics Groups spetskompetens är hydraulik, elektromekanik och smörjsystem. Våra kunder finns främst inom områdena Energi, Marin & Offshore, Industri samt Mobila System.



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



In sunset the view from our balcony was incredible.

## CREATING DNA IN THE CENTER OF TECHNOLOGICAL DEVELOPMENT

*Silicon Valley is the center of technology and development, and a place where people from all over the world come together to create new ideas. The Bay Area gave us a feeling of both excitement and welcomeness. From the moment we arrived we knew we would love it here.*

Twelve hours after our arrival at San Francisco airport we found ourselves in the lab of our host company DNA2.0. We were both fascinated by the size of the lab, as it was much bigger than any lab we've ever seen before. Open space and colleagues going back and forth helping each other gave the lab a very friendly and easygoing feeling. DNA2.0 was one of the first companies in the world focusing on gene synthesis and gene production. With the latest biotechnology and with employees from around the world DNA2.0 in Newark, California, is a case in point of technical development in the area and the Silicon Valley's multiculturalism.

During our internship we got the chance to work in several different departments in the lab and try the main biotechnological methods used in DNA2.0's gene synthesis and protein production. Our starter basis was the large scale production where we got to

*“The focus was always on teaching us as much as possible.”*

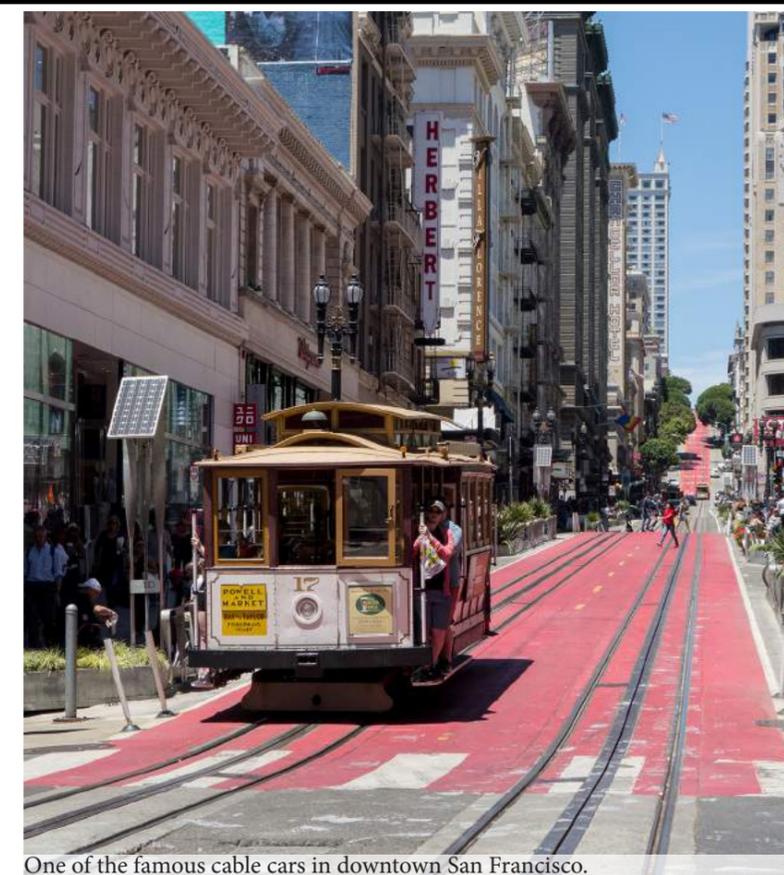
learn in detail how to produce specific DNA in large amounts. Lab techniques we've only tried a few times before, like bacteria cultivation and DNA extraction through cell lysis, we have now performed on a daily basis. The focus at DNA2.0 was always on teaching us as much as possible about the company and biotechnology. Everyone was very keen on talking about and showing us their work. To keep up with the latest techniques, the company invites biotechnology speakers to give lectures which all employees may attend.



One of our road trips, this time to San Diego.



A few of our colleagues in the lab of DNA2.0.



One of the famous cable cars in downtown San Francisco.

The Bay Area is a valley with a unique combination of cities in different sizes and a closeness to nature. Vista points on the hills showed us the amazing landscape and the view from our balcony was difficult to top. On the north and south edges of the valley are the big cities San Francisco and San Jose. We spent several days in the famous San Francisco, a city known for its many different cultures and free spirit. It's impossible to get bored in this city where we did everything from walking across the Golden Gate Bridge to watching the spectacular Pride Parade to visiting the infamous Alcatraz Federal

Penitentiary. But, even in the smaller cities in the Bay Area there's a lot going on, such as music concerts and outdoor movie nights.

To work in a biotechnology company for the first time has been a great experience and has enabled us to put our theoretical knowledge into practical use. We have gained invaluable knowledge for our future careers and are certain that we will continue developing in the field of biotechnology. This summer in the Bay Area has been one that we will never forget and we hope that we will return one day.

### DNA 2.0

**Founded:** 2003 | **Employees:** 71 | **Hosting Interns since:** 2012 | **Area of business:** Gene synthesis and bioengineering solutions. | **Website:** www.dna20.com



### Isabel Runneberger

**Born:** 1993 in Gothenburg, Sweden | **Present education:** B.Sc. in Bioengineering | **Future plans:** Continue my studies with a M.Sc. in Biotechnology. | **Best memory:** All the adventures and road trips with friends. **Worst memory:** Getting bird droppings in my hair during the Pride Parade in San Francisco.

### Tuva Wegnelius

**Born:** 1993 in Linköping, Sweden | **Present education:** B.Sc. in Bioengineering | **Future plans:** Travel and then continue my studies with an M.Sc. in Biotechnology | **Best memory:** Spending a weekend with friends in San Diego. **Worst memory:** Driving twelve hours in a hot car without aircondition.



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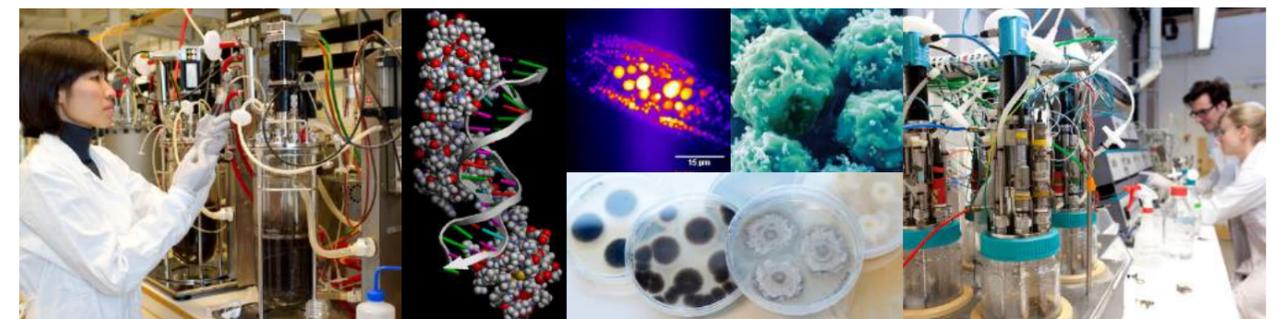
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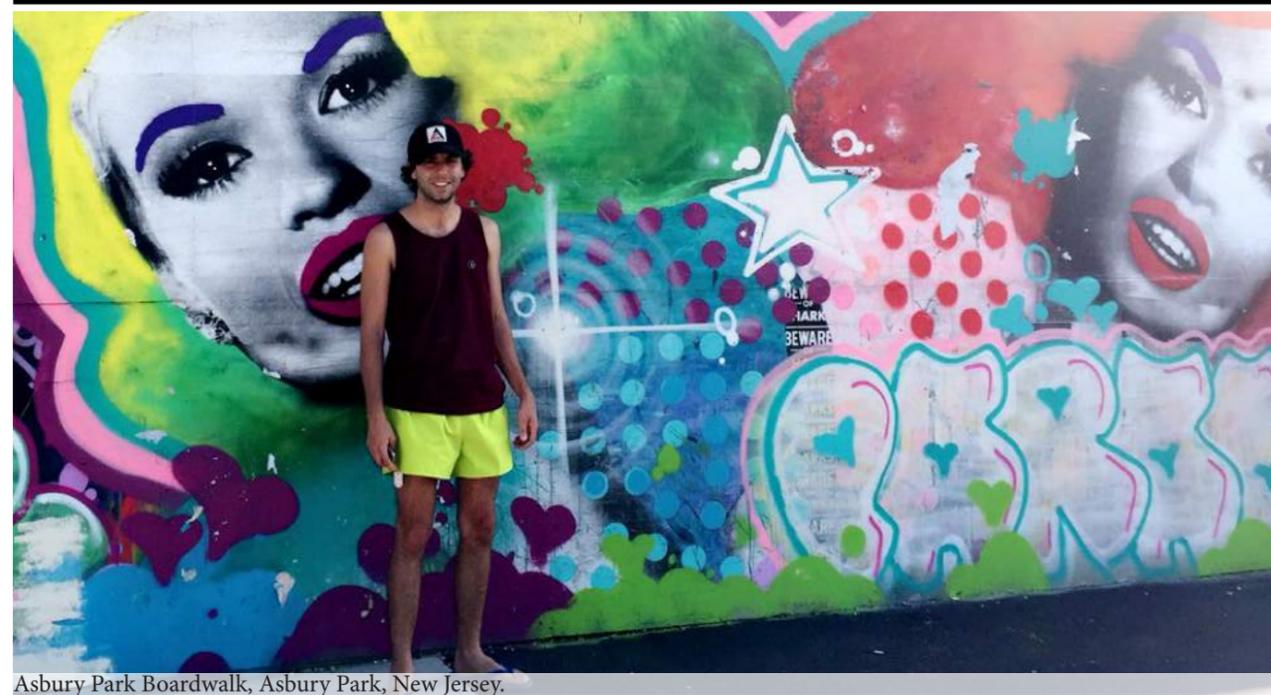
The aim of the Master's program in Biotechnology is to educate skilled people for the biotechnology sector, primarily for research and development within industry and academia dealing with biomedicine, pharmaceuticals, biomaterials, food, and industrial biotechnology. The programme focuses on the interface between chemistry, biology and medicine, with engineering as a common working tool. Students gain competencies in using engineering principles in the analysis and optimisation of biological systems, and in

using integrated approaches for solving complex biotechnological problems.

The courses link to the excellent research in these areas carried out at Chalmers University of Technology and Göteborg University. MSc thesis projects are offered both at these academic institutions and in companies in the Göteborg region as well as internationally. International exchange is possible during the programme.

<http://www.chalmers.se/en/education/programmes/masters-info/Pages/Biotechnology.aspx>





Asbury Park Boardwalk, Asbury Park, New Jersey.

## MAKING THINGS FLY ON THE EAST COAST

*When I first arrived at my new home in New Haven, I was way too excited for someone who was going to be temporarily living on a couch for 2 weeks. But the overall happiness of arriving at my destination overshadowed anything else that could be considered an inconvenience.*

I was still loaded with energy from the preceding weekend in New York City with my classmates, and my head was overflowing with ideas of what my first day of work would be like. About 40 minutes away from New Haven, in Newington, I am working as a production planning intern at GKN Aerospace. GKN, founded in 1902, originated as an iron works company but has since developed into a multinational company that is now organized as GKN Aerospace, Driveline, Land Systems, and Powder Metallurgy. GKN Aerospace Newington provides complex high quality engine products, such as fan cases, for military and commercial aircraft engines that are manufactured by companies such as Pratt & Whitney and General Electric. These engines eventually make their way onto aircrafts such as Boeings and Airbuses.

A production planner's main responsibilities include analyzing, planning and implementing a company's

*"It all happens here!"*

production process. My primary role this summer is to manage the implementation of a shop floor management system called FORCAM at two different GKN Aerospace facilities belonging to GKN Aerospace division of New England. The duties of this role mainly consist of planning and coordinating actions that will move the project towards its completion. So far I have worked with business and tech consultants from FORCAM and MACDAC, as well as IT specialists, engineers and machinists at GKN Aerospace. One of my secondary roles includes working with sales inventory and operations planning, or SIOP. I will be building tools that will make the planning process



Delicious Shake Shack Burgers, New Haven, Connecticut.



Taking a stroll through the Newington manufacturing facility.



The Common, Boston, Massachusetts.

smoother, and also result in a more efficient and profitable production.

So far these projects have taught me a tremendous amount as well as given me an overall great impression of what working at a manufacturing facility is like. I have been blessed with a great team of coworkers who have been nothing but helpful, friendly and positive. I already feel like I have been friends with these people for years. The only thing I can complain about is that they didn't like the Swedish licorice that I brought for them.

Living in New Haven has been an adventure in itself. I share an apartment with five students who are doing summer internships at Yale University. So far my weekends have been nothing but eventful.

With New Haven being in the center of several major cities, I have already been to New York, Providence and Boston. I've also managed to go down the shore twice, and I've even visited Nashville! All the places I've been to so far this summer have their own unique inspiring environments, and it's hard to describe the excitement of it all.

The USA Summer Internship Program at Chalmers and my hosting company have provided me with a priceless experience that has helped me grow richer in professional, cultural and social experience. For this I thank them immensely. Even though my internship and time in New Haven will only last until the end of September, I know that the memories will last me a lifetime.



### GKN Aerospace

**Founded:** 1902 | **Employees:** 16708 | **Hosting Interns since:** 2013 | **Area of business:** Aerospace engineering | **Website:** [www.gkn.com/aerospace/](http://www.gkn.com/aerospace/)

### Robert Ljungberg

**Born:** 1992 in Gothenburg, Sweden | **Present education:** B.Sc. in Chemical Engineering and Applied Physics | **Future plans:** Continuing towards my M.Sc. at Chalmers University | **Best memory:** Passing around a football on Narragansett beach during the 4th of July weekend. | **Worst memory:** Sitting in bumper to bumper traffic on the way into New York.

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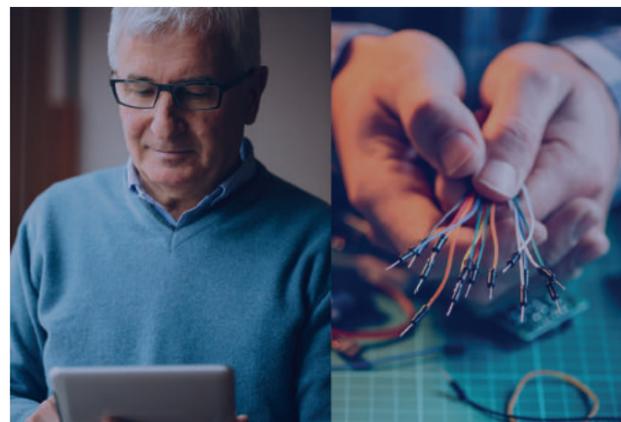


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Outside of the Permobil office.

Photo: Linda Haglund

## A SUMMER IN THE SOUTH WITH MORE THAN JUST COUNTRY MUSIC

*Nashville, a small city mostly known for its music culture, is today one of the fastest growing cities in the entire US. Apart from downtown with all the great live music pubs there are plenty of other things to explore around the city. Not to mention Cummins Falls, one of all the beautiful waterfalls in Tennessee.*

When we first came here, the first thing that surprised us was the cars. Almost everyone drives huge pick-ups. In the countryside, the cars became more burly with bigger trunks and dual rear wheels. This made our rented Ford SUV seem a bit tiny in comparison.

**“from 100°F to a massive thunderstorm”**

Our host company, Permobil, is a Swedish company from Timrå that manufactures and develops power wheelchairs, manual wheelchairs and seating solutions. Permobil has over 200 employees here in Nashville and over 1400 worldwide. The primary goal, to bring freedom to every person with disabilities, makes the company and the employees special. Everyone understands the importance of their daily work, no matter which department they are in. Since every wheelchair is custom made, the involved workers develop a close relationship to the customer and a better understanding of his or her needs.

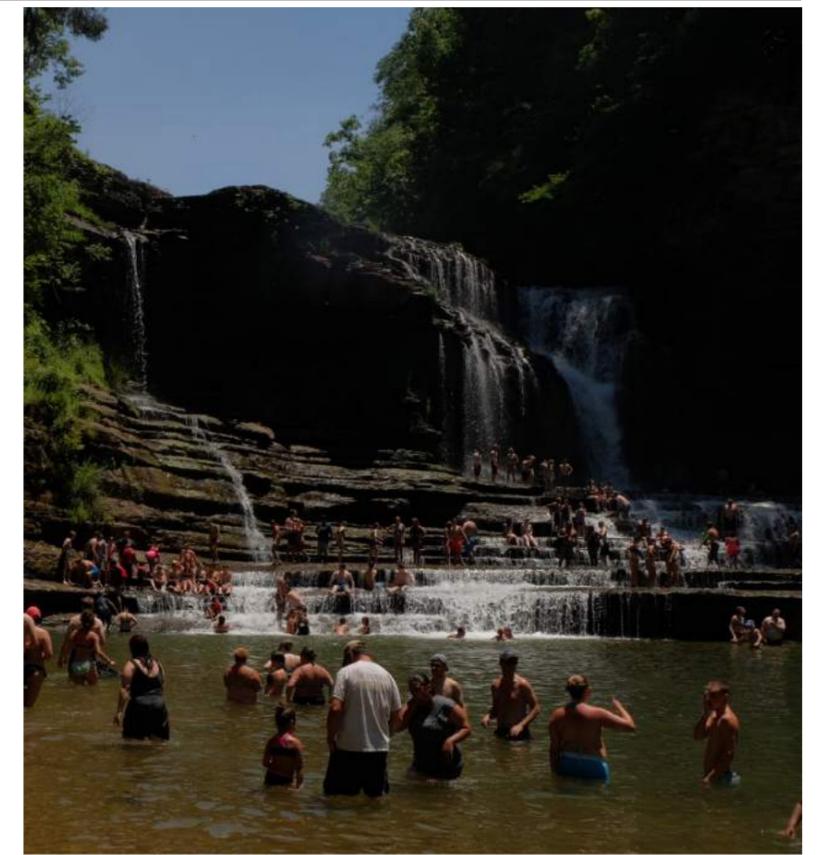
During our internship, we worked together with a team at the R&D department on a project. Our tasks consisted of a great balance between conceptual design to a more engineering perspective of problem solving. Both of us mostly worked together with the R&D Manager, Mehdi Mirzaie. Mehdi is innovative and he always pushes the limits. We also worked with Technology Development Engineer, Corey Blanch. His engineering expertise ensures that ideas become reality. Working with Mehdi and Corey has truly showed us how a creative and interactive design process works. We have learned a lot from watching their work dynamic and skill sets.



Downtown Nashville.



Hiking in the Smokey Mountains.



Cummins Falls State Park.

The weather down here in the south is basically everything or nothing. It is not uncommon to experience the switch from sunny and 100°F to a massive thunderstorm with heavy rain and a sky full of lightening. Another big difference from Sweden is the way that Americans rely on air-conditioning. During the lunch break we are only a few employees that are enjoying the meal outside. For us it is all about defrosting ourselves before heading back to the cold office desk.

After work, we have explored the surroundings and during the weekends we have made longer trips, for example to Florida, New York City and the Smoky Mountains.

We are very pleased that we got the opportunity to be part of the Permobil family and were able to be involved in what they do. We would like to thank Mehdi, Corey and the rest of the people the Research and Development team for this fantastic time. Also, a big thanks to Melissa that has taken care of us during our stay here!

### Permobil Inc.

**Founded:** 1963 | **Employees:** 1300 | **Hosting Interns since:** 2008 | **Area of business:** Power wheelchairs, manual wheelchairs and seating solutions. | **Website:** www.permobil.com



### Elin Franzén

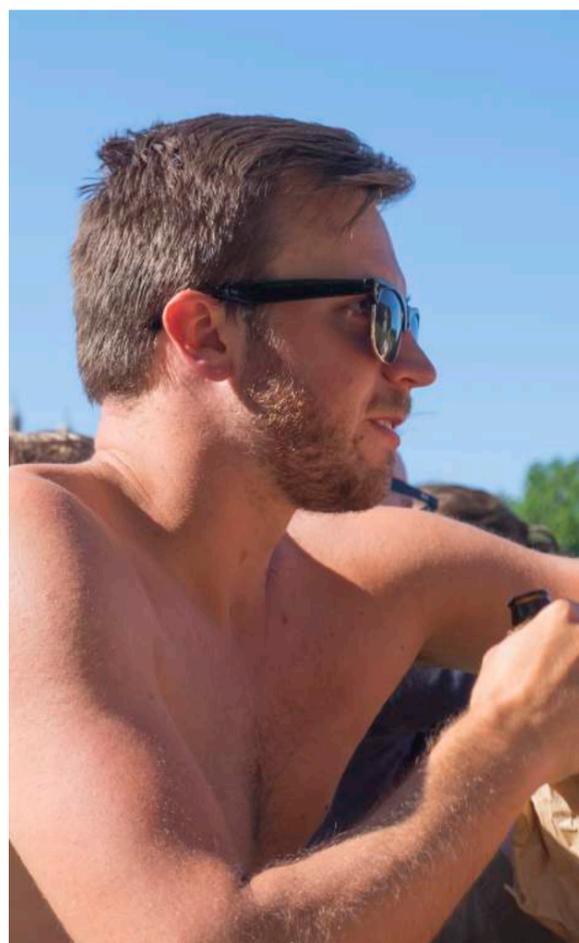
**Born:** 1993 in Lund, Sweden | **Present education:** B.Sc. in Industrial Design Engineering | **Future plans:** Continuing towards my M.Sc. in Valencia, Spain. | **Best memory:** Celebrating midsummer in New York with friends. | **Worst memory:** Missing a trip to New York after my flight was canceled.

### Oskar Lillo

**Born:** 1994 in Visby, Sweden | **Present education:** B.Sc. in Mechanical Engineering | **Future plans:** Build a house in Bahamas. | **Best memory:** All the good snacks. | **Worst memory:** Getting a flat tire on highway 24 on my way to Atlanta.



#usasip16



## Välj klimatneutrala trycksaker, välj Elanders.

Vill du göra ditt företags trycksaker klimatneutrala? På Elanders arbetar vi sedan många år systematiskt med miljöfrågor. Genom att rekommendera papper, format och miljömärkning hjälper vi er att minska era trycksakers miljöpåverkan.

Med vår miljö kalkylator räknar vi ut hur din trycksaksproduktion kan bli klimatneutral. Vi lever upp till stränga miljökriterier i allt från själva tryckprocessen till papperet, färgen och kemikalierna som används. Dessutom arbetar vi ständigt med att minska kemikalieanvändningen och pappersspillet.

Växthusgasutsläpp som vi inte kan eliminera kompenseras vi för genom att investera i FN-godkända projekt som stödjer övergång till användning av förnyelsebara energikällor i mindre utvecklade länder.

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Golden Gate Bridge.

## STRUCTURAL ENGINEERING IN FOGGY BUT CHARMINGLY UNIQUE SAN FRANCISCO

*My adventure started over a year ago in Sweden when I became a member of USASIP. It was a fun year with many hours of hard work. All that hard work payed off, I am in foggy but charmingly unique San Francisco working at Monte Stott and Associates Inc.*

I have always wanted to travel to USA and when the perfect opportunity turned up to combine that dream and at the same time gain work experience, I took it! Now I am in wonderful San Francisco working as a structural engineer intern at Monte Stott and Associates.

My membership in USASIP was great; it provided me many new friends and experiences, so the three day long kick off in New York was both amazing and sad! Enjoying time in New York and knowing that the next adventure was waiting in San Francisco was exciting. On the other hand, it was a bit sad saying good-bye to the other members when we all parted to go to different places all over North America.

San Francisco is a fascinating city because of its geography, climate, crazy hills and its unique seismic situation, which is especially exciting for an

*“Every day you should do something embarrassing and fun.”*

internship at Monte Stott and Associates. Monte’s firm provides seismic engineering services such as evaluations, retrofitting and strengthening to both new and existing residential and small commercial structures in the San Francisco Bay area. Monte Stott has seven employees and Polly the dog at the office. The employees are experts in different areas; some are proficient in CAD and drafting while others are responsible for the structural design and calculations. The different expertise among the employees provide clients in the area with solutions that are relatively simple, easy to implement and affordable.



Painted Ladies in San Francisco.



Dinner with the colleagues.



Balboa Park in San Diego.

Not one day is like another for an intern at Monte’s firm. The employees are eager to show the intern something new every day and the goal is for the intern to leave San Francisco with as much new knowledge as possible. It is not easy describing how a typical day is at the firm. I usually start the day with an hour of administrative office tasks. After picking up voice mail and emails, Monte will assign different tasks from finishing structural or detail drawings using AutoCAD, going to the building department to pull permit or bidding new projects that come into the office. Since Monte Stott and Associates offer a broad range of engineering services, site visits are common. Therefore, some days you pack your bag with a flashlight, measuring tape, notepad, and head out with Monte or the others at the firm to survey a

house or crawl into a crawlspace to survey framing or foundation conditions.

When I am not working, I have time to experience San Francisco. Among the Victorian houses and steep hills, there is a city with a great selection of food, shopping and nightlife. If you ever get tired of the city life the beautiful nature of California is only an hour drive away whether you like mountains, deserts, redwoods or oceans.

It will be hard to leave San Francisco when the time comes for that. However until then will I try to travel and learn as much as possible. I will also try to follow Monte’s advice; every day you should do something embarrassing and fun.



### Monte Stott & Associates

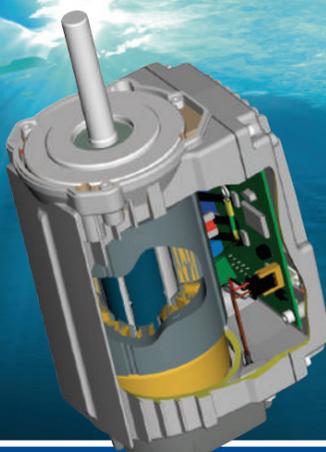
**Founded:** 1989 | **Employees:** 7 | **Hosting Interns since:** 2011 | **Area of business:** Structural Engineering | **Website:** www.montestott.com

### Ellen Petersson

**Born:** 1992 in Trelleborg, Sweden | **Present education:** B.Sc. in civil engineering | **Future plans:** Finishing the internship and travel in North America before finishing my master studies. | **Best memory:** Going to Twin Peaks to see the sunset and beautiful night view of San Francisco Bay by the light of the summer solstice full “strawberry moon”. | **Worst memory:** I had to walk for two hours to get an Uber on 4th of July in San Diego.

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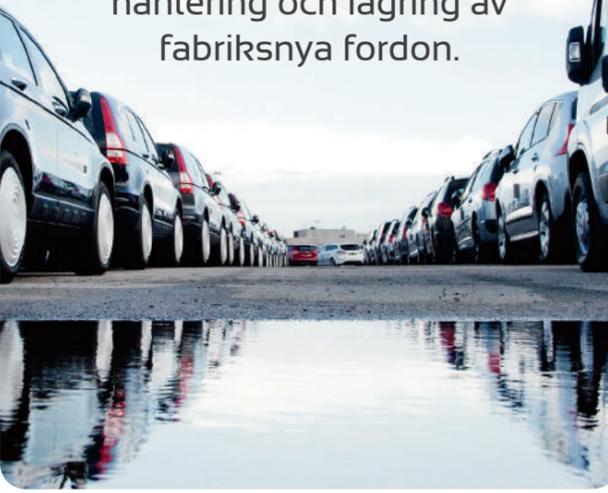


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**INHOUSE TECH**

**TRE OMRÅDEN ATT VÄXA MED!**

Oavsett tjänst hos oss har vi ett enkelt och tydligt arbetssätt, där vi arbetar långsiktigt för att försäkra oss om projektets och kundens framgång såväl som vår egen. Detta ihop med spetskompetens och lång erfarenhet ser vi som vårt framgångsrecept.

**INHOUSE TECH INFRA**

Här arbetar vi med projektering och konstruktion av industri- och anläggningskonstruktioner som broar, tunnlar, hamnanläggningar, industri-fundament och fundament till vindkraftverk. Vi har specialkompetens inom avancerade temporära konstruktioner som spontar, fängdammar och slitsmurar. Vår broverksamhet ligger i framkant inom dynamiska analyser och temperatursprickanalyser. Våra huvudområden:

- Projektering
- Konstruktion, permanent och temporär
- Granskning
- Klassning och bärgbestämning
- Temperatursprickberäkningar
- Dynamiska analyser

**INHOUSE TECH GEOTEKNIK**

Vårt kunskapsfält ligger inom geoteknisk konsultation i entreprenad-, planerings- och projekterings-skeden. Vi utför dimensionering av geotekniska konstruktionslösningar, utredningsuppdrag och utarbetar projektpassade lösningar och arbetsberedningar. Våra huvudområden:

- Geotekniska fältundersökningar
- Geotekniska utredningar i projekterings- och entreprenadskeden
- Geoteknisk konstruktion såsom grundläggning, jordförstärkning, stödkonstruktioner, jordinjektering, grundförstärkning m m
- Geoteknisk kontroll och uppföljning i entreprenadskedet
- Expertstöd inom jordförstärkning

**INHOUSE TECH PROJEKT**

Här tar vi kontroll över samtliga skeden i ett projekt i fastighets-, industri- och infrastrukturprojekt. Våra nätverk av långsiktiga strategiska allianser samt mer kortsiktiga projektallianser ger oss kapacitet att leda projekt av betydande omfattning. Våra huvudområden:

- Projektledning
- Projekteringsledning
- Bygglledning och kontroll
- Kalkyl och ekonomistyrning
- Kvalitets- och miljöstyrning
- Myndighetshandlingar
- Riskanalyser



The beach is right next to Bolt Depot

## NUTS AND BOLTS IN BEANTOWN

*Boston is the place to go when you want that small town feeling in a city with skyscrapers, be among young professionals and students, and when you want to live near water close to boats and beaches. This is where my adventure is going to take place for the next six months.*

These are hectic times for my company Bolt Depot, moving to a new and bigger building, updating everything and expanding their staff. But this doesn't stop them from giving me a great warm welcoming and simplifying my life here by lending me both a car and a phone. I couldn't be more thankful! Smaller work force creates a "everybody knows everybody"-feeling which makes it easy to learn the whole Bolt Depot family.

All new staff starts off on the floor picking nuts and bolts for orders that have been placed through Bolt Depot's website. They get several hundreds of orders every day so there's always something to do. On the floor you really get to know the rest of the friendly staff and get familiar with the broad range of product that Bolt Depot offers. This helped me a lot when it came to learning more about nuts and bolts, and the imperial system that I had to work with when I started

*"People from here are tough,..."*

creating CAD-models of the products. Considering that they are updating most of their material, I had a lot to do.

The company car gives me freedom to drive wherever I want and not needing to depend on public transport. New cities, sunny beaches and friends are easy to visit whenever I want, all you need to avoid is rush hour.

Boston is a big city with a small town mentality offering a lot of things to do for all kinds of personalities. But be prepared to pay a lot, Boston is one of the States' most expensive cities. People from here are tough, drive fast and honk for the tiniest things, but Americans in general are very social, outgoing and



Visiting other students from USASIP in Providence.



Celebrating Independence Day in Weymouth.



Copley Square in Boston.

polite. When going to Boston by train two elder ladies told me their whole life story during the four hour trip, non stop talking. So fun!

Walking through the different neighborhoods you will see a mixture of big, old and amazing houses that have at least two floors, all in different colors such as purple with lime green corners. Most of the buildings are of New England style which gives a fantastic contrast when a modern skyscraper is placed right beside, shooting up into the clouds. So when driving into Boston at night after a good day at work I am always amazed by the city lights reflecting in the water, the sun setting behind the skyscrapers and music beating loudly through the car speakers.

I definitely recommend trying to share an apartment with an American when living here. My room mate has shown me around town, telling me where the good shopping is, which areas to avoid, which neighborhoods I should visit and taken me to hidden gems such as restaurants and bars. You really should know how to find your way around to find the good places when the streets are packed with all kinds of restaurants, cafés, and bars.

Finally, I wouldn't be here on the other side of the Atlantic Ocean if it wouldn't be for the support from family and friends, giving me the strength to stay focused and achieve my goals. I would also like to thank my host company Bolt Depot for realising my dream and making a life in United States of America possible!



### Bolt Depot

**Founded:** 1949 as Cazeault hardware | **Employees:** 50 | **Hosting Interns since:** 2011

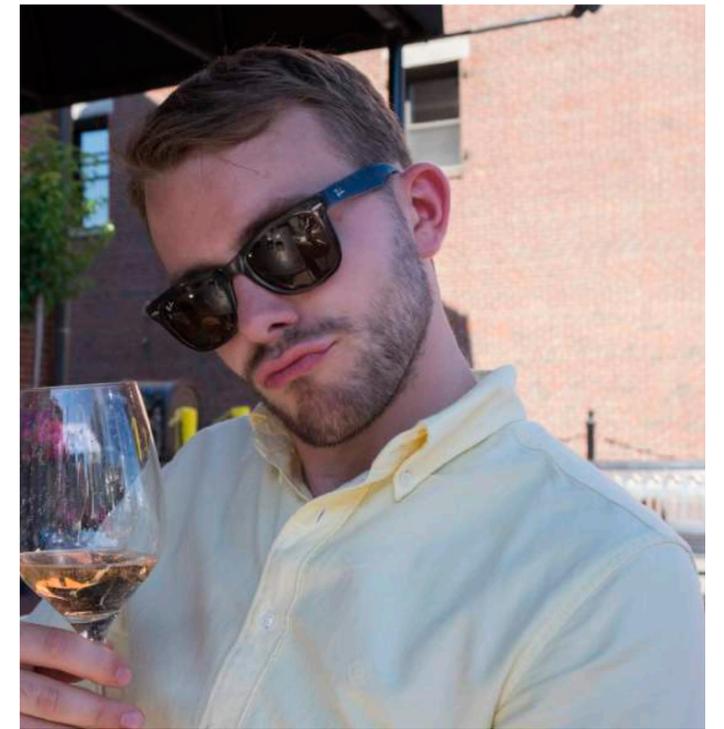
**Area of business:** Fastener solutions | **Website:** www.boltdepot.com

### Estela Marie Ankarbåge

**Born:** 1993 in Riyadh, Saudi Arabia | **Present education:** B.Sc. in Industrial Design Engineering | **Future plans:** Traveling the rest of the world | **Best memory:** Seeing the fireworks two nights in a row during the Independence Day celebrations. | **Worst memory:** Taking the wrong exit from the highway several times and getting lost in Boston without any internet on my phone.



#usasip16





Huntington Beach.

## SUMMER ADVENTURES ON THE ORANGE COAST

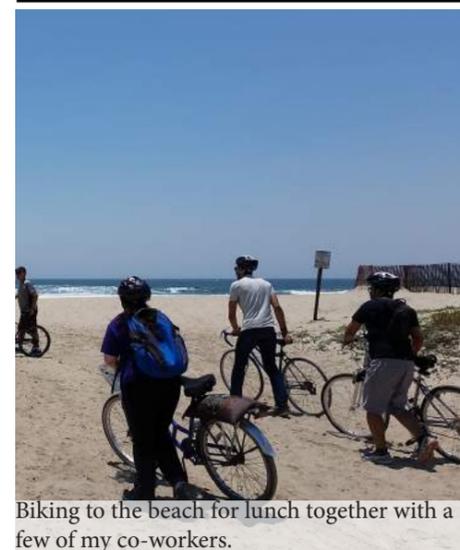
*After spending most of your life in Sweden, it's strange finding yourself surrounded by palm trees and what seems to be a never ending summer on your way to work. This is, however, something I really don't mind getting used to.*

After an amazing stay in New York it was finally time to leave the rest of the group behind and go to the airport. Feeling slightly lost I boarded the plane that would take me across the country. Six hours later I arrived at Los Angeles International Airport, from where I eventually managed to get to Orange County, my home for the months to come.

Even though I had found a room in Fountain Valley, located just next to beautiful Huntington Beach, a few days before I left Sweden, I didn't have much more than a name and an address when I arrived in California. Thus I had no idea what to expect when I knocked on the door to my new residence. Luckily both the family renting me a room, as well as my new roommates, turned out to be incredibly welcoming and instantly made me feel at home.

*“surrounded by friendly people, great food and stunning scenery”*

With all these things happening around me I almost forgot the purpose of me being in America in the first place, but two days after I arrived it was finally time to start working. The company at which I'm doing my internship, PACE, is a civil engineering firm specialised in advanced water engineering. After a warm welcome at the office on my first day I soon found myself in a whirlwind of different challenging tasks. I'm now slowly getting familiar with the three major divisions at PACE; Environmental Water, Stormwater Management and Recreational Water.



Biking to the beach for lunch together with a few of my co-workers.



It would probably be difficult to find a street without palm trees here in Orange County. Mine is no exception.



Hiking through a small canyon in San Diego.

Before I started this internship I thought I had a pretty accurate picture of what an engineer does, after all I have a degree in engineering. It turned out I was wrong. The variety of assignments has been wider than I could ever have imagined. So far the tasks have ranged from verifying drawings and attending seminars to hydraulic calculations and CAD drawing. One day I was even asked to assist a few engineers doing some tests in the lab. Since I was never a big fan of the chemistry classes in school this request made me a bit worried, but friendly and helpful co-workers made this assignment both comprehensible and interesting.

After three years of engineering studies it feels great to finally be able to apply what I've learned in reality. The fact that I get the chance to do it in California,

surrounded by friendly people, great food and stunning scenery, just makes the whole experience truly amazing. I still feel the need to pinch my arm every now and then to make sure it's not a dream. Apart from a trip to San Diego I still haven't had the chance to see much of California. The state is almost the size of Sweden and offers everything from beautiful beaches to impressive mountains, so exploring the surroundings is one of my highest priorities before it's time to go back home.

It's been an intense year. But as I'm writing this, sitting in the sun in Southern California, I can finally ascertain that all the hard work really has payed off.

### PACE

**Founded:** 1987 | **Employees:** 60 | **Hosting Interns since:** 2015 | **Area of business:** Civil engineering with specialization in water engineering | **Website:** www.pacewater.com

### Otto Jarhult

**Born:** 1991 in Ullared, Sweden | **Present education:** Bc.S Civil Engineering | **Future plans:** Travel and eventually go back to Sweden to pursue a master's degree. | **Best memory:** A trip to San Diego with a group of other Swedish interns | **Worst memory:** Saying goodbye to two of my roommates as they left the country.



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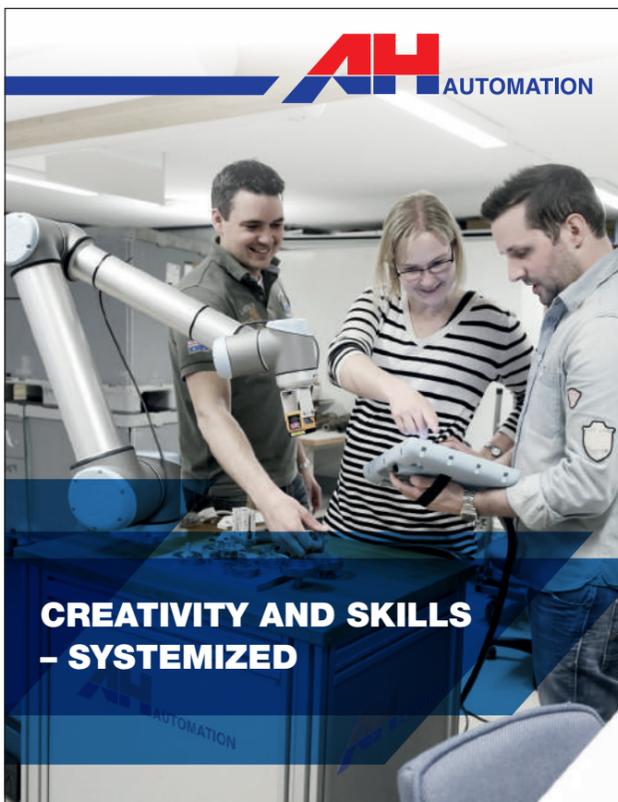
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Sand beach in Biloxi, Mississippi.

## LIVING THE AMERICAN LIFESTYLE ON THE SOUTHERN ROADS

*Going alone to a city I have never heard of before has worked out to be the best choice ever and this southern atmosphere has proven to be a true fit. This culture really makes that extra effort of making everything more excessive and impressive.*

On the flight down to Charlotte I was eager to get to know the city, people at work and seeing more of America. I had just managed to catch the flight in time after first going to the wrong airport in New York. When arriving in Charlotte my supervisor Mike picked me up at the airport to show me around some.

There are a lot of things to explore outside of office hours here in America. It doesn't matter if it's about the local food and beverages or if it's about longer road trips in the deep south, almost everything here is bigger and more extreme. As there are fast food restaurants everywhere and you can't go anywhere without a car, everyone keeps telling me that I will gain a whole lot of weight before leaving this place. In the office, when something is over excessive or dumb in a stereotypical American way, we jokingly point out that this, this is America.

### “This, this is America”

So far I have had the opportunity to travel a lot in the surrounding states and also celebrated 4th of July way down in New Orleans. Here in America, the homeland of cars, a good four-hour drive is nothing. Besides traveling I have also had the chance of getting to know my colleagues better, the southern hospitality is a real thing. I have also had the chance to move in with some awesome roommates and I can say that this feels like a home for my six months long stay here.

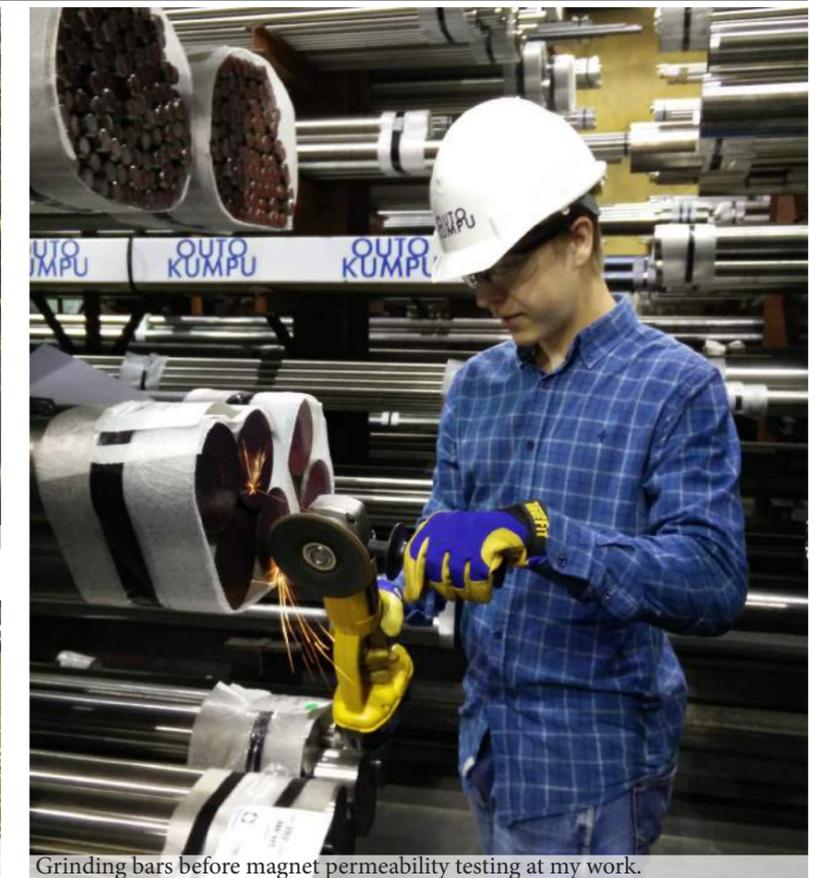
Outokumpu is a global stainless steel company originating from Finland. On this site the company



Snake petting i Central Park, NY.



Alligator tour in the swamps, Louisiana.



Grinding bars before magnet permeability testing at my work.

makes the finishing touch on stainless steel bars. That includes cold welding, peel and polishing, grinding, heat treatment and straightening. It is very interesting being a part of this facility getting exposed to more areas of the business and really see how many processes and partners are included in making the steel. As a mechanical engineer it is valuable understanding the whole chain of production, both the technical things as well as production, management and sales.

I work in a small quality team that ensures that every bar we ship to a customer fulfills the needed specifications, often this means limits for the material's mechanical properties. At a daily basis we send samples to different labs and assign the right test plans for it to make sure it can be used in industries with high

demands, like the nuclear industry for example. It is many different things we prevent from failing, as my colleague describes the work we do: “we are the last failsafe, it's all about putting out the fires that other dumb people create”.

This internship has provided me with valuable engineering experience that I will bring back with me to Sweden. I want to thank my boss Michael Marcanio for teaching me about the whole steel process and together with Chuck Keating made this internship possible. Also a thanks to Louis Rosborough for training me and keep answering all my sometimes dumb questions.

#### Outokumpu

**Founded:** 1995 | **Employees:** 70 | **Hosting Interns since:** 2002 | **Area of business:** Stainless steel bars

**Website:** [www.outokumpu.com](http://www.outokumpu.com)

#### Edvin Eriksson Johansson

**Born:** 1994 in Vingåker, Sweden | **Present education:** B.Sc. in Mechanical Engineering | **Future plans:** Completing my internship and then travel through the rest of the American continents. | **Best memory:** Celebrating 4th of July weekend roadtripping in New Orleans | **Worst memory:** My first roommate suddenly canceled the lease and the apartment had to be emptied immediately.



Institutionen för Material- och tillverkningssteknik, Chalmers



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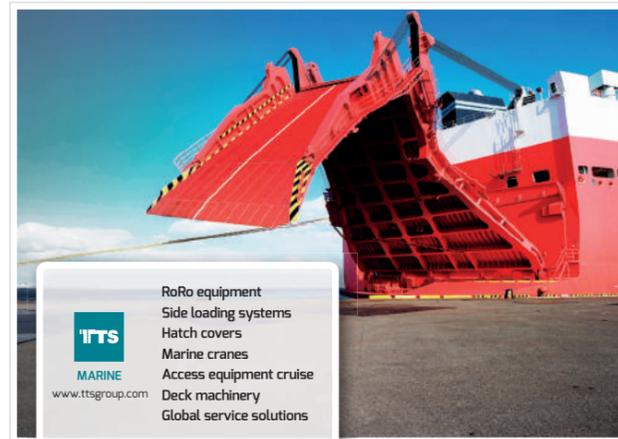
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Magical sunset in Manhattan.

## LIVING LARGE IN THE CITY OF BIG DREAMS

*Moving from Gothenburg to a city with almost the same population as entire Sweden can be quite an adjustment. But also very exciting. With an endless amount of new places, cultures, restaurants and activities we will probably never get used to this constantly changing city.*

After a couple of days with the USASIP committee we were left alone in the City, in a small apartment a bit below Swedish standards and a crappy air-conditioning unit. Although adapting to our new home quite fast, it felt great arriving the first day at work. Not only an office with working air-conditioning, great atmosphere and a bearable view, but also freshly brewed coffee and a welcoming SKIM team that already knew our names.

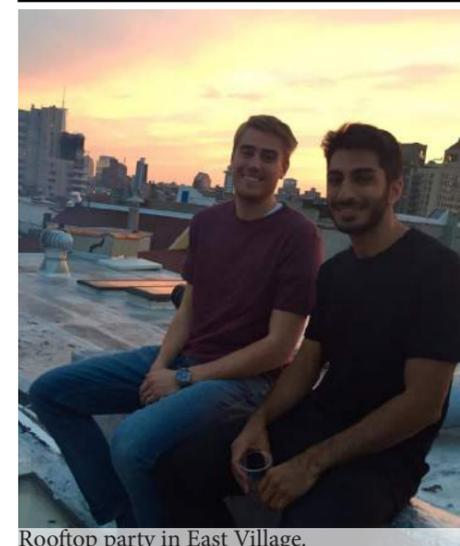
SKIM is a market research agency with offices in four different continents. They are experts in consumer decision behavior and operate mostly in the business areas of consumer goods, healthcare and telecommunications services and technology. They use a lot of different, advanced methodologies to analyze business questions that their clients are interested in. The company over the years has developed an expertise in understanding the true business questions behind clients' requests and finding the insights behind the research

*“This city is so nice, they named it twice”*

data that truly help a client make more informed business decisions.

Our position in this exciting company are Research Analyst Interns within the consumer goods division. Within a consumer goods project, the smallest difference in the appearance of a product or wording on a package can make a huge difference to the client's performance in their market. This makes the work interesting, important and stimulating.

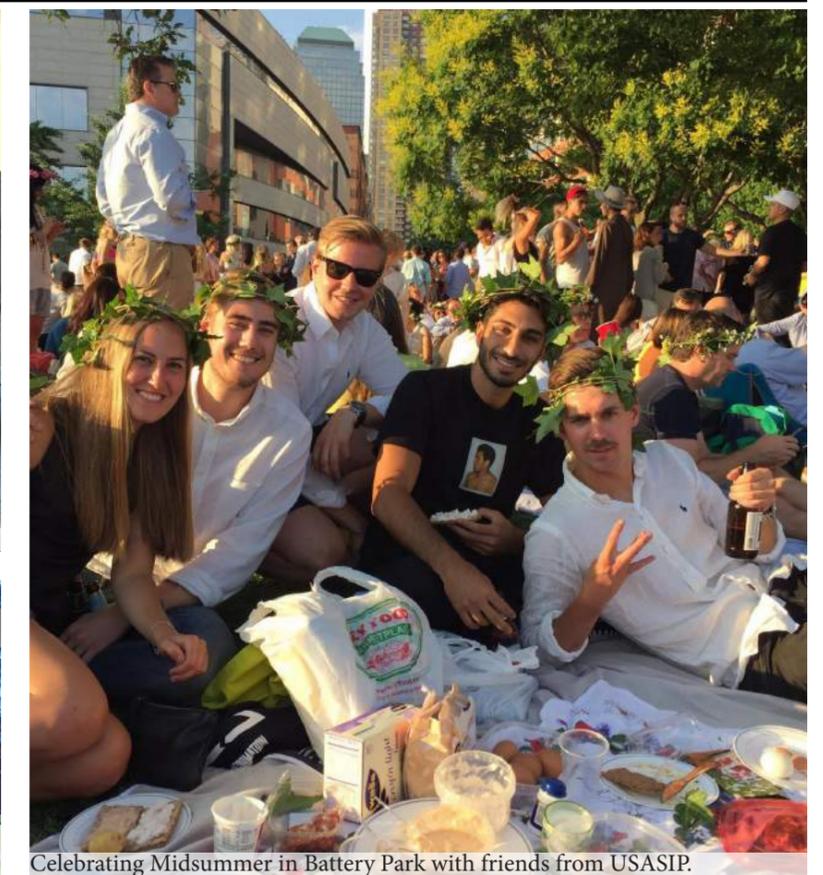
Although not yet responsible for our own external projects, we have already been involved in several different projects to quickly get as much experience as possible. We are, however, already responsible for our own internal projects. In these projects, our roles



Rooftop party in East Village.



Paint night after work with our colleagues at SKIM.



Celebrating Midsummer in Battery Park with friends from USASIP.

are managerial. By completing these projects we are going to optimize specific internal work processes and thereby streamline some of the work done on a companywide basis.

SKIM is not just a great company that takes care of their employees, but is also located in a city with endless opportunities and things to do. Speakeasy bars inspired by the prohibition era, rooftop parties on Wall Street, shopping in SoHo, playing American football in Central Park are only a few things we have done during our first weeks. Here, we will never stop

exploring new things. All you need to do is walk out your door and you will most likely meet new people that are willing to tell you about their local go-to places.

Last but not least, we would like to thank SKIM for this opportunity. We would also like to thank our colleagues for a great working atmosphere, our managers Harivony Rakotoarivelo and Sean O'Connor for their guidance and also Oskar Törneld, a USASIP alumni, for initiating the SKIM internships.

### SKIM

**Founded:** 1979 | **Employees:** 137 | **Hosting Interns since:** 2013 | **Area of business:** Market Research  
**Website:** [www.skimgroup.com](http://www.skimgroup.com)



### Martin Bjöntegaard

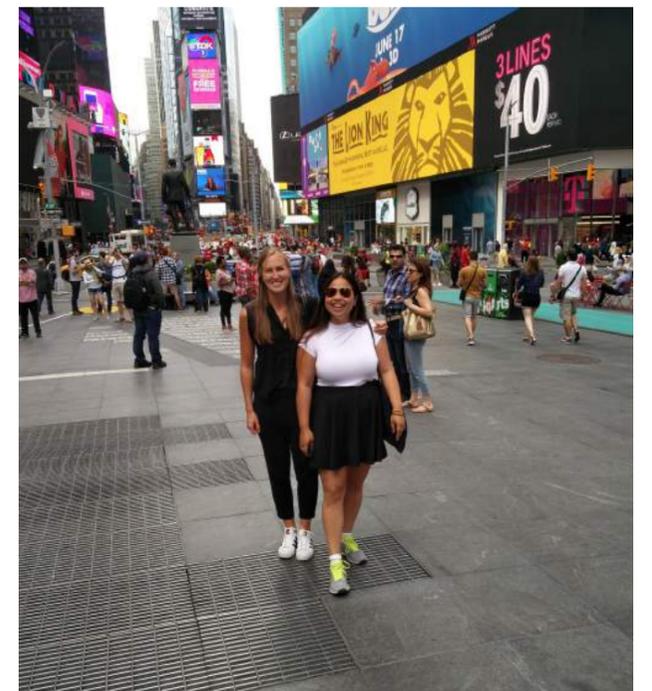
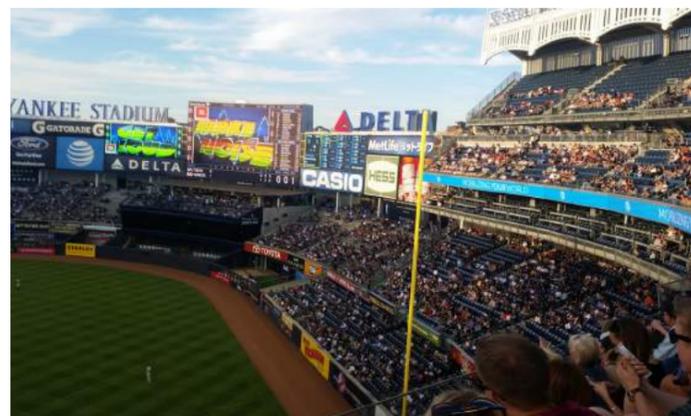
**Born:** 1993 in Huddinge, Sweden | **Present education:** B.Sc. in Industrial Engineering and Management  
**Future plans:** Continue to work for SKIM until mid-June next year and then probably continue on a Master's program.  
**Best memory:** Celebrating Midsummer in Battery Park with friends from USASIP and ending up on a Wall Street rooftop party. | **Worst memory:** When our old roomie left because his VISA expired.

### Artin Esmailzadeh

**Born:** 1994 in Gothenburg, Sweden | **Present education:** B.Sc. in Mechanical Engineering | **Future plans:** Nothing planned after the internship. Perhaps take another year off and do some travelling. | **Best memory:** 4th of July, when we had no plans but ended up at a house party on Wall Street. | **Worst memory:** When I thought I bought a one-dollar-slice but really it was three dollars.



#usasip16





Posing in front of the magnificent view, classic tourists.

## SERVING CANADA WITH TIRE SUPPLIES FROM EAST TO WEST

*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 with over 13 000 items. At the shoreline of lake Ontario we were made part of this challenge.*

After spending three days in New York we arrived in Toronto on a late Sunday night where our supervisor Neil waited to pick us up. Two days after our arrival the president, Dave, and his wife Chrissy took us out for dinner with their family. Dave told us that the annual conference was coming up, and asked us to come along with them to get a chance to meet all their distributors and vendors. Little did we know that we would end up in a room at the Hilton Hotel in Niagara Falls. Our five days at PCIT (Prema Canada Institute of Technology) was a good way of getting to know the company and the way they manage their business. During the tradeshow held at the PCIT we got to see a lot of the 13,000 products Prema is selling and let us just say, we have a lot to learn!

Prema Canada is one of the largest distributors of tire and wheel service supplies in Canada and market leader in delivering a total supply solution

***“Little did we know that we would end up at the Hilton Hotel in Niagara Falls”***

to the tire industry. With such a versatile product catalogue comes great complexity. Keeping both the product database and the accounting system in sync is time consuming and creates a lot of extra work. This is because of the effort it takes to keep two incompatible systems updated. One of our tasks is to help bringing the accounting system and a new CRM system together in the hopes of eliminating the time and energy wasted today.

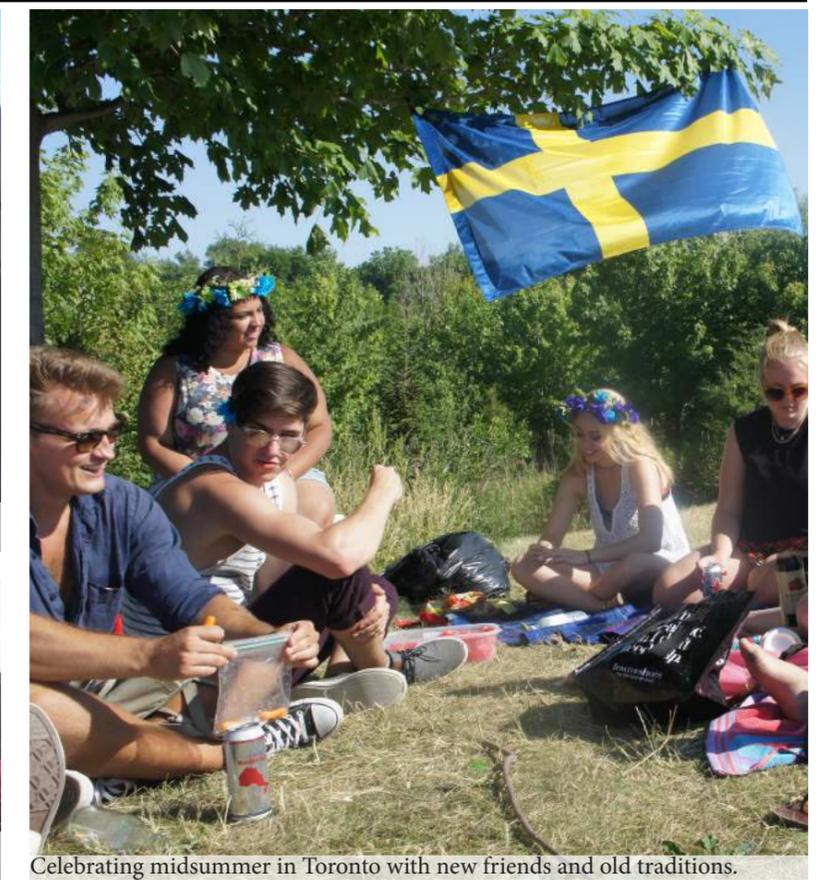
During our free time, we try to explore as much of Canada as possible. Burlington makes that possible because of the vicinity to both nature and the big city life. We spent our first weekend in Toronto, one hour



Isabell in the golf cart after a round with our new co-workers.



A breath-taking boat tour down by the Niagara Falls.



Celebrating midsummer in Toronto with new friends and old traditions.

away by car. After strolling around for some time in very cool, vibrant and diverse neighborhoods, we walked down towards the waterfront to get a closer look at the 346 meter tall CN tower as well as enjoying a free beer from a local brewery. We met up with some Swedes and their Canadian friends in Woodbine park to celebrate midsummer together. With beers, songs, games and dancing around the maypole we ended up having a great night and Toronto is a city we will try to return to as much as we can.

Finally we would like to thank Gustav, one of the previous interns, who spent an entire week with us at work before he headed back home to Sweden. We would also like to send a big thank you to Prema Canada and all our co-workers for this amazing opportunity and for making us feel as welcome as we possibly could.

### Prema

**Founded:** 1954 | **Employees:** 26 | **Hosting Interns since:** 2010 | **Area of business:** Canada's biggest tire and wheel service supplier. | **Website:** [www.premacanada.ca](http://www.premacanada.ca)

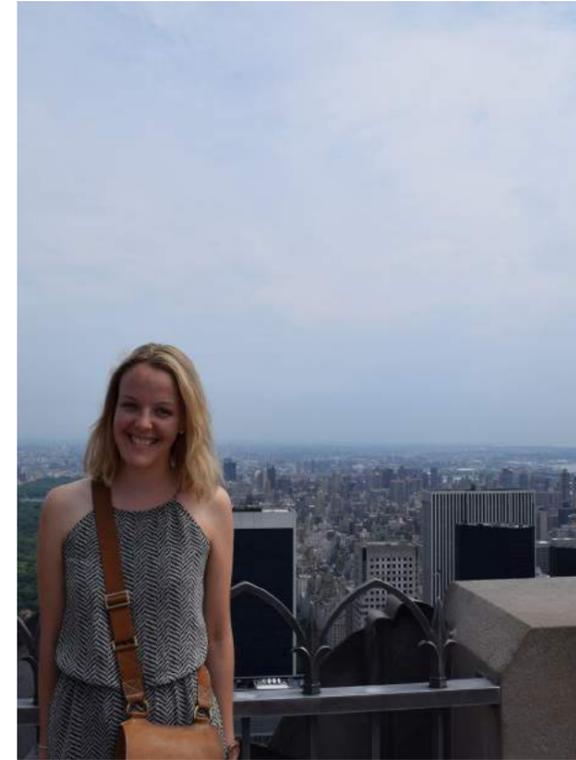
### Olivia Lund

**Born:** 1993 in Gothenburg, Sweden | **Present education:** B.Sc. in Industrial Engineering and Management | **Future plans:** Continue with my master's degree at Chalmers | **Best memory:** The breath-taking boat ride under the Niagara Falls. | **Worst memory:** Realizing that Canadians have never heard of Crème fraiche, it doesn't exist! And you have to believe me, I involved the whole staff of a supermarket to look for it.

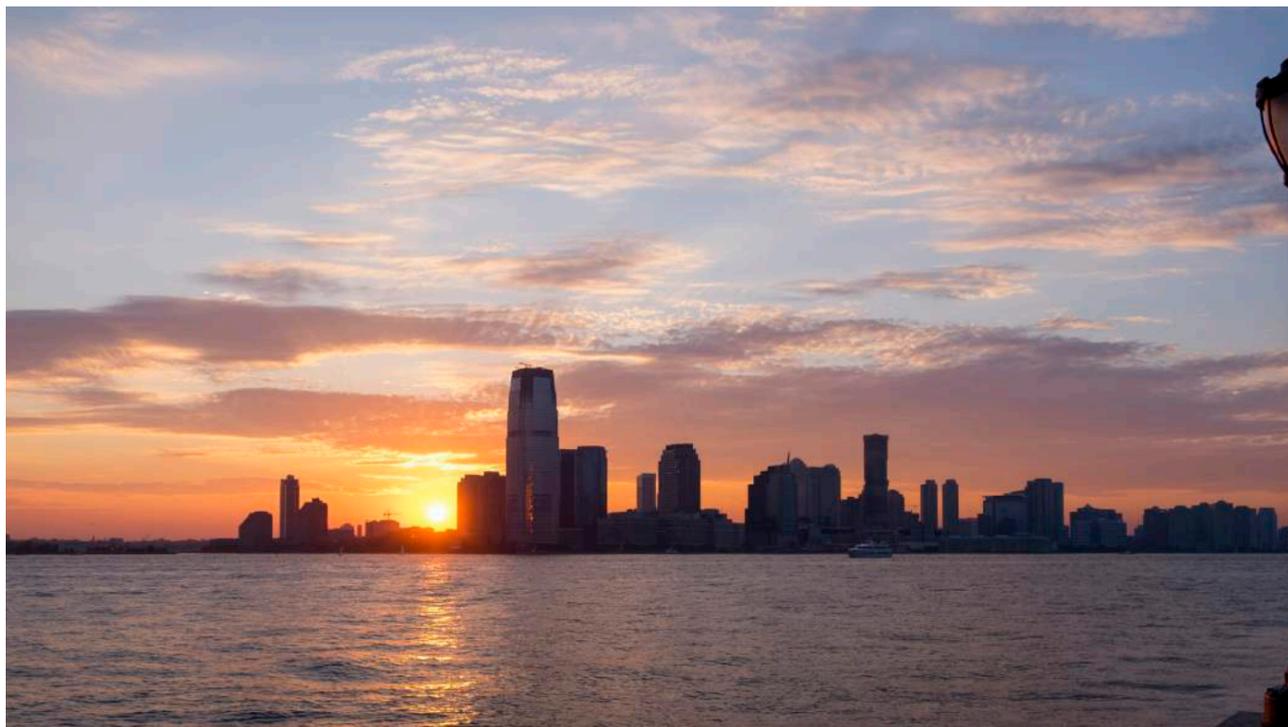
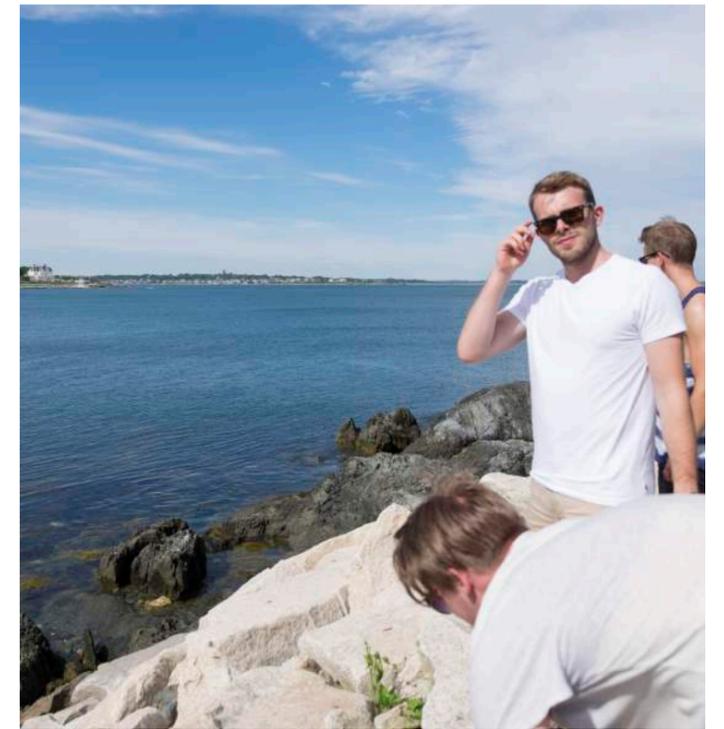
### Isabell Kernich

**Born:** 1989 in Halmstad, Sweden | **Present education:** B.Sc. in Industrial Engineering and Management | **Future plans:** Continue with my master's degree. | **Best memory:** I had a really good time participating in the Golf Tournament at the PCIT. | **Worst memory:** Born and raised at the Swedish west coast, imagine the disappointment when realizing I am not able to swim in Lake Ontario due to the pollution.





#usasip16





The trio, hungry for experience in Upper Peninsula, MI.

## DEVELOPING THE SUSTAINABLE VEHICLE'S OF THE FUTURE

*“Finally, we are here!” Marcus said when the plane hit the tarmac at the Detroit Metropolitan Wayne County Airport and I think we all felt the same feeling - that the coming year would be a great adventure.*

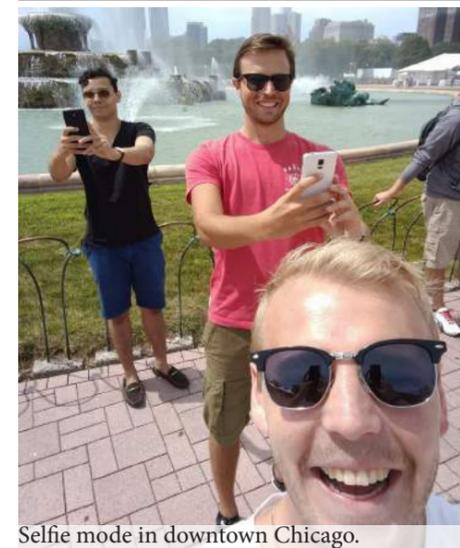
Working at FEV does not only bring you the challenges and opportunities of working with the leading automotive companies in the world, but also an experience for life and a family away from home in the form of twenty other interns. FEV has been hosting international interns for over 20 years and has a well-developed system to integrate the engineering interns in different projects at their site in Auburn Hills, just outside Detroit or “Mo-town” as it is called over here.

We could not have felt more welcome arriving in Detroit. Christoffer Alm and Yu Li Hua, members of last year’s USASIP, picked us up at the airport and took us to one of their favorite food places before going back to the apartment complex where all the international interns at FEV live. Listening to Christoffer and Yuli talking about their year abroad all of us felt that we had made the right decision taking a year off

*“A family away from home!”*

from our studies to apply our newly achieved knowledge in real work life.

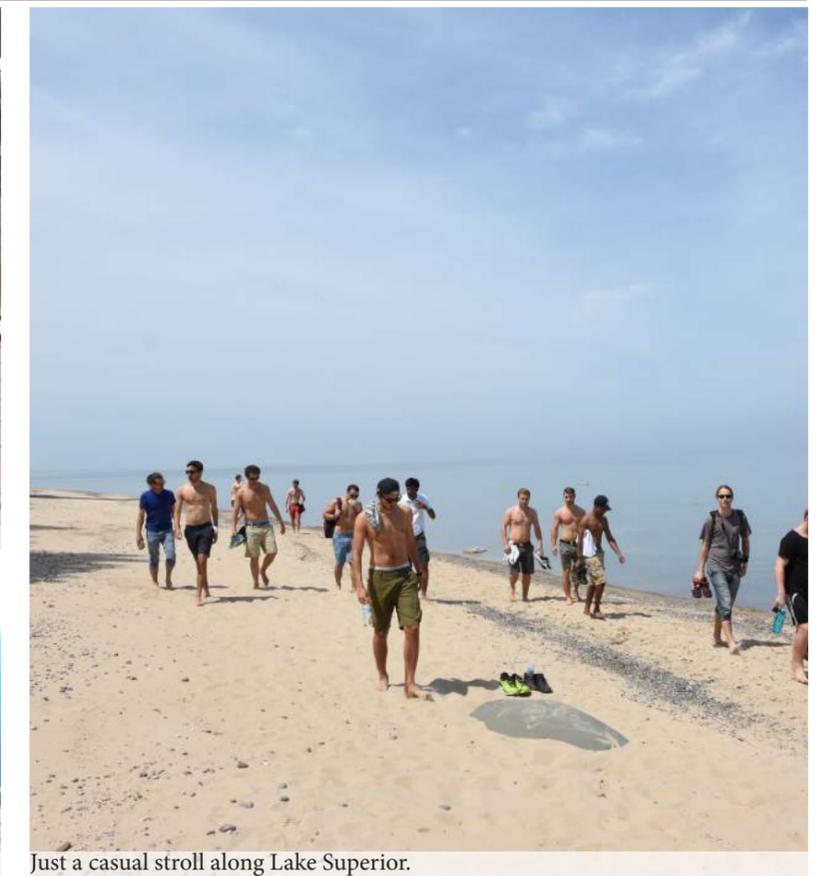
As an intern at FEV you are provided with a spacious three room apartment in a lush suburban area one hour from downtown Detroit and a car which you share with your roommate during your time at the company. New interns are paired with more senior ones which helps keeping the great atmosphere within the group even though there are interns coming and leaving almost every month. The high amount of interns at FEV leads to busy afternoons in the village either hanging out at the pool, playing tennis or gatherings to plan the trip for the upcoming weekend.



Selfie mode in downtown Chicago.



Some of the international interns at FEV.



Just a casual stroll along Lake Superior.

As a tradition among the international interns at FEV all the interns go out to eat lunch together whenever there is an intern coming or leaving. Our first day was not an exception and the more senior interns had even called the restaurant in advance to make them show Sweden’s first game in the euros 2016. Even though Sweden did not play at their best the lunch was a nice way meeting the group and just another example of the extra effort everyone is ready to put in to make the newcomers feel welcome.

After lunch all of us met up with our assigned mentors to get to know the projects which we have been working on since then. Each one of us is working in the light-duty diesel department but in different projects and with different tasks. However, all of us already feel that the engineers listen to our inputs and that we are able to contribute in the projects. We would all like to thank our mentors; Marvin, Trevor and Sharon, who all have been patient with our limitations and already taught us a lot in the field of automotive engineering.

FEV, with its origin in Aachen, Germany, is a company providing a wide range of engineering services for the automotive industry. In 1985 FEV expanded its business to North America and after a quick detour in California they moved their business to the heart of America’s car industry, Detroit. With the ongoing advancements of vehicle propulsion systems and the systems becoming more complex and integrated, FEV’s area of service competences have extended to include transmission and driveline development, whereas FEV’s original area of strength is combustion engines. Furthermore, the introduction of electric and hybrid electric propulsion systems has generated even more opportunities for FEV to expand its service offerings. In addition to this, FEV conducts projects concerning vehicle integration and calibration, wind power, and test and instrumentation systems.

We have only been here for a couple of weeks and have already, besides working in our interesting projects, experienced the beautiful and scenic Upper Peninsula, nightlife in Detroit, Germans celebrating

**FEV NA INC.**

**Founded:** 1978 | **Employees:** 450 | **Hosting Interns since:** 2014 | **Area of business:** Powertrain and vehicle engineering. | **Website:** www.fev.com

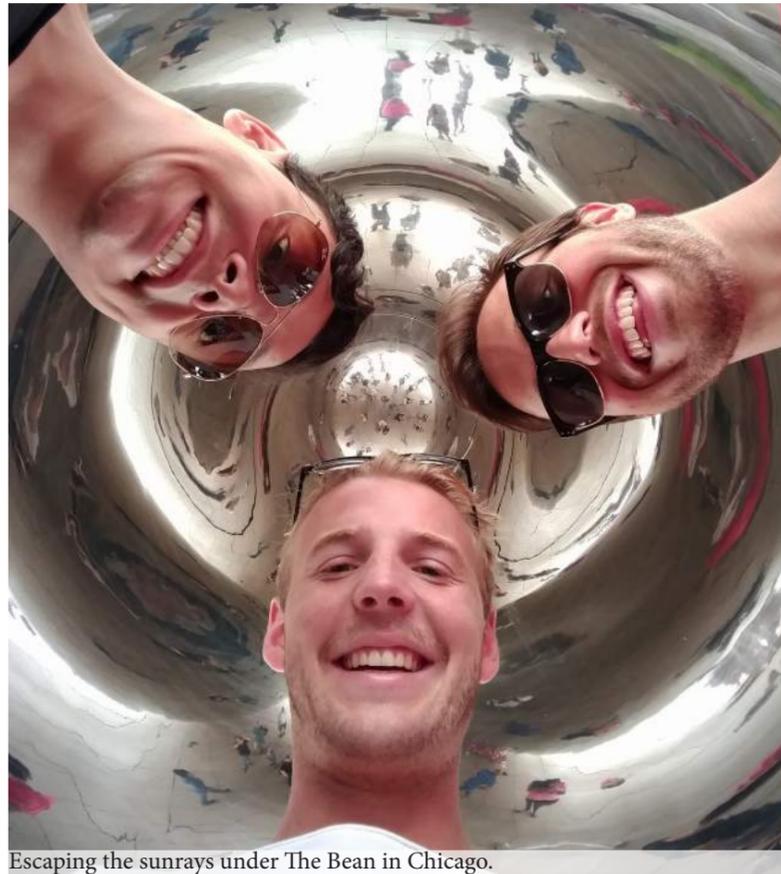




The intoxicating view from Hancock Center, Chicago.



Trying to fight the sunrays outside the Technical Center.



Escaping the sunrays under The Bean in Chicago.

Swedish “midsommar” for the first time and 4th July in Chicago. Two weeks after our weekend in Chicago we met up with parts of the committee in Nashville, the home of country music. Except enjoying the beautiful surroundings of Nashville, this was a wonderful weekend meeting up with our friends and listen to stories from their great adventures in North America. So far it has not been a boring millisecond and we have the feeling there will be a lot more fascinating

projects at work, road trips to new places all over the country, and hilarious happenings down the road. With this said we all would like to thank all contributors for making our internships possible and say to all of the students who are hesitating whether to apply for the committee or not, just do it, you’ll not regret it!

**Kristian Eide**

**Born:** 1994 in Mölndal, Sweden | **Present education:** B.Sc. in Automation and Mechatronics | **Future plans:** Experiencing this adventure as much as possible and the going back to Sweden to complete my masters. | **Best memory:** Gazing upon the Chicago skyline from the 95th floor in Hancock tower. | **Worst memory:** Witnessing a car accident on the highway between Detroit and Chicago.

**Marcus Johansen**

**Born:** 1994 in Ängelholm, Sweden | **Present education:** B.Sc. in Mechanical Engineering | **Future plans:** Have an amazing year in Michigan, then hopefully travel in Latin America before continuing my master studies at Chalmers University of Technology. | **Best memory:** Bathing in the astonishing waterfall, Cummins Falls, outside Nashville, TN. **Worst memory:** Going to the basketball court five minutes drive away, trusting the navigation app in Kristians phone and ending up being lost on Michigan’s highways for one and a half hour.

**Olle Mattsson**

**Born:** 1991 in Kungälv, Sweden | **Present education:** B.Sc. in Mechanical Engineering | **Future plans:** Enjoying a year abroad before pursuing my master’s degree at Chalmers University of Technology. | **Best memory:** Hiking in the astonishing pictured rocks area in northern Michigan | **Worst memory:** Experiencing the horrible roads of Michigan.

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## SweMaint

Vi håller godstågen rullande



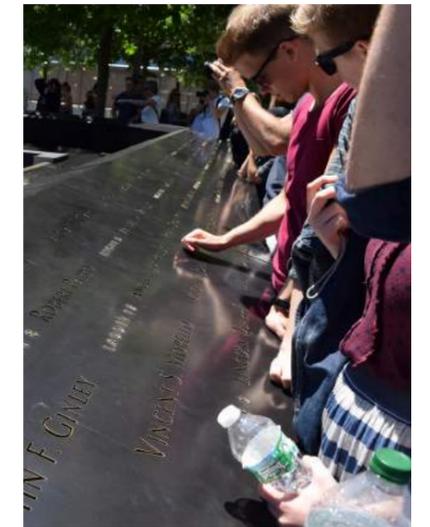
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Machine solutions from clever minds



#usasip16





Augusta Riverwalk.

## A SUMMER IN THE SOUTH

*In a small town in the state of Georgia, I got the opportunity to do my internship at one of the biggest Chemical companies in the world, AkzoNobel. So far this has been a fantastic time. I have really got a chance to experience the American culture and everyday life.*

I must say that I was really nervous when I waited at the airport in New York to go to Augusta, all by myself, not knowing anyone. But all my fears disappeared as soon as I got here. My new colleges were so sweet and welcoming and they made me feel at home from day one. The southern people are known for their hospitality and I am often invited to come along on activates outside work. It makes it easy to get to know people.

The first thing that struck me when I arrived to Augusta was the heat. I knew that it was going to be hot but the humidity was something else; though I must say that I like the heat, coming from the cold in Gothenburg, Sweden.

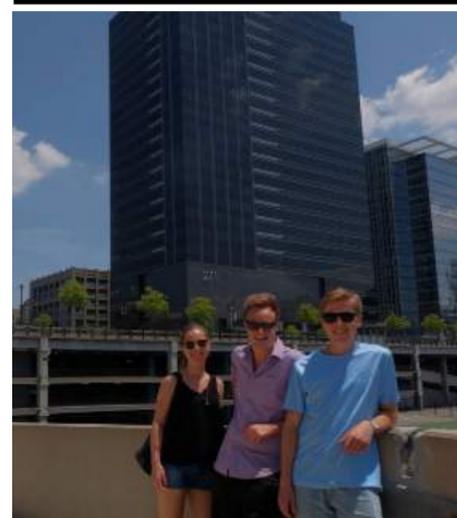
Augusta is a small city in the south of America, beautifully located by Savannah river in the middle

*“Can’t think of a better way to spend my summer”*

of Georgia. The city is most known for the golf tournament, the US Masters.

The location is perfect since it gives me the chance to travel and visit different and unique places just by driving. It is only a two-hour drive to Atlanta but also to the coast with cities like Savannah and Charleston, where you can find nice beaches. There are also a lot of things to do in Augusta, outdoorsy activities like kayaking, paddle boarding, and other events.

The company that I work for provided me with an apartment and a car. That was much needed since it



Me and some friends from USASIP in Atlanta.



With some of my colleagues at AkzoNobel.



Paddle boarding in Savannah river.

is almost impossible to get around without a car because of the distance, everything is kind of spread out and there are no sidewalks or bike paths.

AkzoNobel is a global paint and chemical company. The site in Augusta produces colloidal silica and it's a part of the Specialty chemicals division. The first couple of days I was trained in safety and I also got to see the production, the lab and received a presentation of the products and their applications. This was great since it gave me an overview and an understanding for the process. My internship means working in the lab performing different kind of analyzes of the products. Besides that, I have my own project where I will be looking at how to make one part of the production more efficient.

My expectations on this trip was to gain work experience and to learn about the American culture, but after one month here it has turned out to be so much more, I have met new friends and made lifelong memories. This is my greatest adventure so far and I am very grateful that I got the opportunity to do my internship here at AkzoNobel, the chance to get to know Georgia and the American culture. I would like to thank all of my colleagues for being so welcoming and for taking such good care of me. A special thank you to my supervisor Jennifer and Tina at HR for all of your help. Finally, I also want to thank USASIP board for all of their effort to make this possible. I can't think of a better way to spend my summer.

### Akzo Nobel Pulp and Performance Chemicals Inc

**Founded:** 1994 when Akzo and Nobel Ind. merged | **Employees:** 45600 | **Hosting Interns since:** 2016  
**Area of business:** Pulp Performance Chemicals-Colloidal Silica | **Website:** www.akzonobel.com and www.colloidalsilica.com

### Sofie Ek

**Born:** 1993 in Kungälv, Sweden | **Present education:** B.Sc in Chemical Engineering | **Future plans:** Continue my studies at Chalmers University of Technology. | **Best memory:** The trips to New York, Atlanta, New Orleans and all the people that I have met! | **Worst memory:** Losing my luggage





#usasip16





One of the projects of the summer, inspecting the safety of Rutgers University's football stadium.

## SPRINGSTEEN, NATURE AND APPLIED ENGINEERING - THE GARDEN STATE

*Just a bit more than a year ago it started, the time that will become the foundation of my future career. There have been a lot of hours during the whole process getting sponsors, the VISA and completing all the necessary applications. Now, here I am and I'll make the best of it.*

To sell a product in a professional way was a new experience for me. The whole thing of contacting a company, hitting them with a sales pitch and settling a deal made me very nervous but at first, but after the first five calls I grew into it. To be honest, it was a big hassle, but once I reached the limit I felt so relieved and could start putting focus on the fun parts, getting an internship.

On the 6th of June I boarded the plane that would take me to New York City. After a few days in and around the City I picked up a car and drove down to the 50 000 residents' town I'm staying in for the summer, Bridgewater, New Jersey or The Garden State as it's called. In general, I'm pretty sure of that Swedes don't really know much about New Jersey except that it is the state where Bruce Springsteen was born but it is a very beautiful state. I have only been living here for a month but fortunately I have got, via my internship,

*“a difference compared to how problems are solved in school”*

the benefit of travelling around in New Jersey and in the states nearby which therefore gives me paid sightseeing and the possibility to experience areas I wouldn't have found as a regular tourist.

Applied Engineering & Technology (AET) is a company consisting of three engineers, there are also currently two interns and I'm one of them. At my interview a few months ago they tried to explain what they are working with but now I understand why it was so hard to boil it all down to a few sentences. AET does pretty much everything within every area of Civil Engineering but they are mostly



A day at work, finding the cause of wood siding rotting with my colleague Jason Miessler.



Road trip to Cold Spring, NY.



Swedish Midsummer in Battery Park.

hired for their expertise to answer the question WHY a structural failure occurred and how to repair it. The job has this far been very varying and I have seen college football stadiums, \$30 million penthouses on upper east in NYC and abandoned buildings in dodgy areas south of Philadelphia. This way of engineering has definitely developed the way of how I'm thinking when solving a problem, it is such a difference compared to how problems are solved in school.

At the first day of work my boss told me “You are here to have fun, you should take some days off every once in a while” and so I have. There is always something new to see or do. Since I have got my own car I'm free to move around on the east coast and this far there have been road trips mainly to cities where

other USASIPers stay like New York, New Haven, Providence and Boston but also Philadelphia and yet there is more to come.

So, one month down and two to go. I'm learning something new every day and the 50% office - 50% field makes understanding and development so much more efficient. I'm currently making my suitcase with priceless knowledge and experiences and with that in mind I'm sure these months of my life will make the foundation of my future career.

### Applied Engineering

**Founded:** 1989 | **Employees:** 3 | **Hosting Interns since:** 2016 | **Area of business:** Expertise within civil engineering with focus on structural engineering | **Website:** www.aetpc.com

### Fredrik Eriksson

**Born:** 1993 in Mariestad, Sweden | **Present education:** M.Sc. Structural Engineering and Building Technology  
**Future plans:** Complete the last year of my Master's after this summer and start doing engineering for real.  
**Best memory:** Swedish Midsummer in Battery Park, NYC | **Worst memory:** All the struggle getting a NJ driver license





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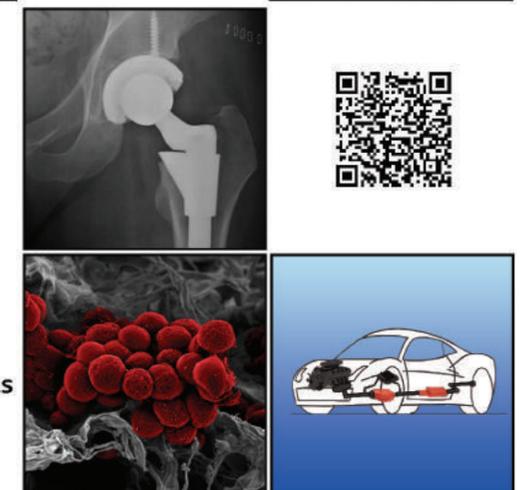
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Rooftop view of Toronto.

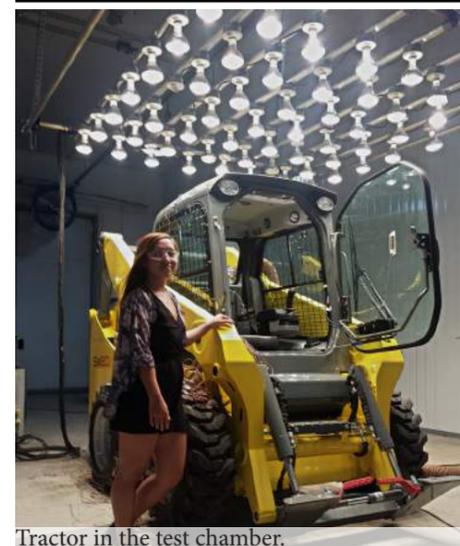
# CREATING CLIMATE COMFORT IN COMMERCIAL VEHICLES

*Toronto is one of the biggest cities in North America, where something is always happening. It is a multicultural city where you can enjoy food from all over the world, do a lot of sightseeing and explore the beautiful nature surroundings.*

After an amazing kick-off in New York I arrived in Toronto with a few days to settle down and explore the city, before starting my internship at Mobile Climate Control (MCC). It is a company that designs and manufactures everything from HVAC system key components to complete HVAC systems. HVAC stands for Heating, Ventilation and Air Conditioning. MCC is a global company with locations in Canada, USA, Sweden, China, South Africa and Australia among others. The Toronto site is MCC's biggest facility and has a big climate chamber where most of my work is done. The vehicles that are being tested in the chamber are commercial vehicles such as buses, off-road and military vehicles. Since the chamber can test the functionality of HVAC equipment in different humidity and solar loads, as well as temperatures between -40°C and +60°C, different approaches for the tests can be used for each vehicle to meet their customer's needs.

*“The city is full of new experiences and surprises”*

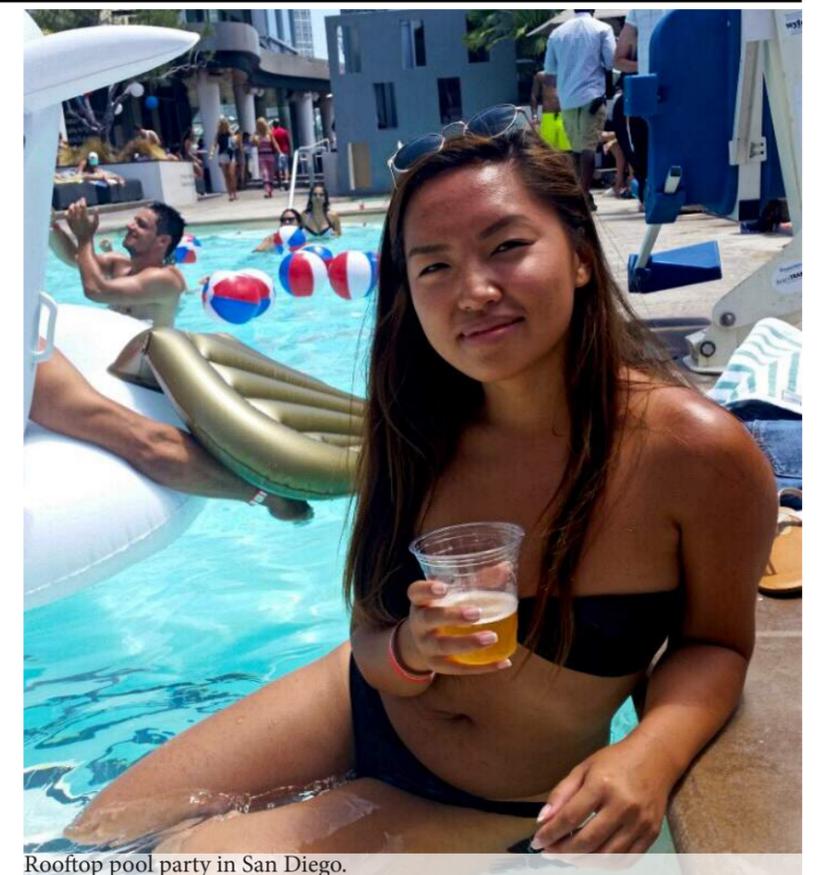
I get to assist in testing vehicles, such as instrument thermocouples in order to measure temperatures and other characteristics during the test. Afterwards I analyze and summarize the test data before writing test reports that include specifications and results of the tests. The whole test process is a very good experience since I get to learn and see how processes I have only known in theory really work in practice. MCC also has a corrosion chamber filled with salt water solution. The components are exposed in that environment for a certain amount of hours and the result is being documented regularly during the test time. These test results are presented in a report as well, which also is a part of my assignments.



Tractor in the test chamber.



Kensington Market



Rooftop pool party in San Diego.

Apart from work I have already managed to experience many parts of everything Toronto has to offer. I have taken the ferry over to Toronto Island to see the beautiful skyline view, visited Kensington Market to enjoy the restaurants and bars there, seen the CN Tower and the Toronto Sign outside City Hall, celebrated Midsummer in Woodbine Park and just explored the vivid city. There are always events and festivals going on during the weekends. The city is full of new experiences and surprises and I am sure that I will make many unforgettable memories during my time here.

Although I really enjoy Canada I am eager to experience the American culture too. I decided to go to San Diego for the 4th of July celebration. It turned out to be a totally amazing weekend filled with

surfing, swimming with sea lions, a rooftop pool party, fireworks on the beach and walks among the palm trees.

So far my experience has been wonderful and I am really grateful for this opportunity I achieved through USA Summer Internship Program. I want to thank my friendly colleagues at MCC for welcoming me to the company and also give a special thanks to my supervisor Chad Cuirrier for taking care of me and helping me to understand the HVAC industry.

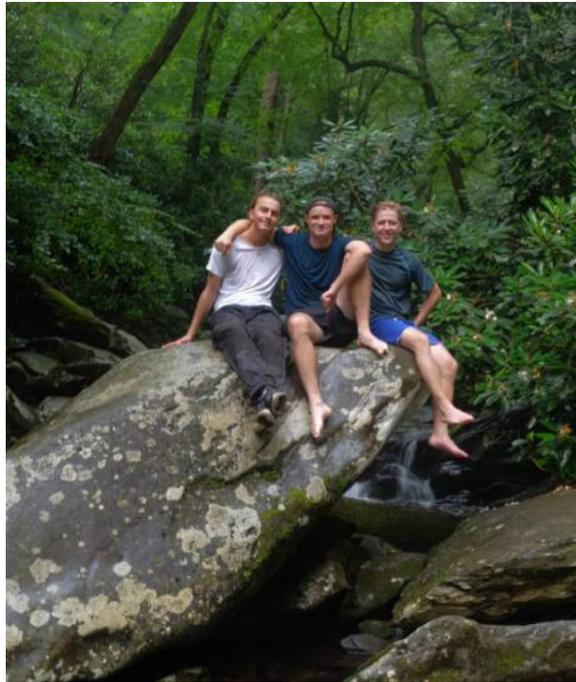
## MCC

**Founded:** 1975 | **Employees:** 300 | **Hosting Interns since:** 2009 | **Area of business:** Vehicle HVAC systems | **Website:** www.mcc-hvac.com



## Kerstin Kha

**Born:** 1994 in Jönköping, Sweden | **Present education:** B.Sc. in Mechanical Engineering | **Future plans:** Finish my internship and travel before starting my masters next fall. | **Best memory:** Sneaking out on a hotel rooftop and enjoying the amazing view of Toronto. | **Worst memory:** Being stopped at customs on my way to work after a night flight from San Diego.



#usasip16





Downtown Providence seen from College Hill.

## BIG DATA AND BUSINESS INTELLIGENCE IN THE OCEAN STATE

*Business intelligence is a fast growing and an ever-evolving business that poses a lot of challenges for four guys from Sweden. But from day one at RSi we felt that we were in the right place to face these challenges and learn a thing or two along the way.*

Providence, although small compared to a lot of other cities on the east coast, has treated us very well. It is a city that is neither too big nor too small and the culinary scene is something extraordinary. We live in a neighborhood called Federal Hill, where the Italian heritage is clearly noticeable by the many great Italian restaurants and cafés. It is also famous for having been run by the Italian mob, but we were told there was nothing to worry about nowadays, except for “the occasional stabbing”. Despite the initial scare, the “Little Italy” of Providence has proved very likeable, with only an eight-minute walk away from work.

There is always something to do nearby and after the first week we had received more recommendations than we think we have time to explore during our stay. We’ve already been to both the Pride and Waterfire festivals and look forward to all the other

*“There’s nothing to worry about, only the occasional stabbing”*

festivals, road trips and activities that are going to take place during almost every weekend of the summer.

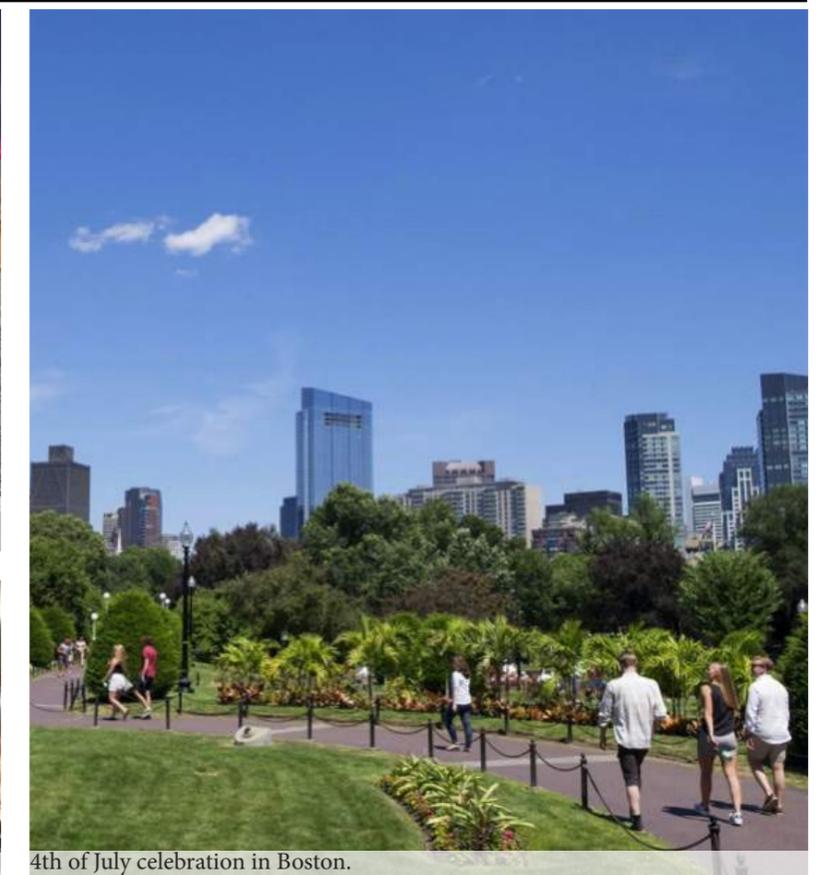
Providence is the capital of the state of Rhode Island, or the Ocean State, as it’s also known. Even though Rhode Island is the smallest state in the U.S., there are a ton of things that you can do. We’ve had the chance to visit some of the many beautiful beaches and we have walked the popular Cliff Walk in Newport, overlooking famous mansions. Being located in the northeastern part of the U.S., close to many larger cities, there are endless possibilities. We’ve been able to celebrate Swedish midsummer in New York City



The four of us during the Pride Festival in Providence. From left to right: Axel, Tobias, Erik, Johan.



On our way to Narragansett beach with friends.



4th of July celebration in Boston.

and 4th of July in Boston with fellow intern friends from Chalmers.

We work at a company called Retail Solutions Inc., or RSi for short. RSi is a Software-as-a-service company that turns Big Data from retailers into opportunities for vendors. Each day, the RSi platform processes billions of records from over 200 major retailers in more than 75 countries around the world. By running this data through different algorithms, RSi is able to help suppliers, by e.g. maximize on shelf availability, minimize out of stock and thereby increase sales

and profits. RSi is an international company, with its headquarters in Silicon Valley and several offices around the world. Providence is the biggest office in North America, with more than 80 employees, while Shanghai is the biggest worldwide.

As the four of us are in different departments we all have very different work duties. Johan is in the Product Management department, where he works on various projects related to RSi’s product portfolio. Currently his main project involves gathering and organizing the documentation



### Retail Solutions

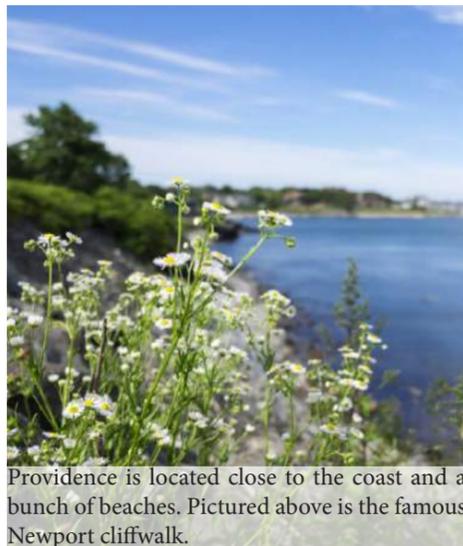
**Founded:** 2003 | **Employees:** 350+ | **Hosting Interns since:** 2015 | **Area of business:** Software company.  
**Website:** www.retailsolutions.com

### Johan Björefeldt

**Born:** 1994 in Gothenburg, Sweden | **Present education:** B.Sc. in Industrial Engineering and Management  
**Future plans:** Finishing the internship and getting my M.Sc. | **Best memory:** Road trip to Boston.  
**Worst memory:** An epically terrible Uber ride.

### Erik Bohnsack

**Born:** 1993 in Luleå, Sweden | **Present education:** B.Sc. in Mechanical Engineering | **Future plans:** Continue to explore North America before completing my M.Sc. | **Best memory:** Hiking to Cummins Falls, TN with friends.  
**Worst memory:** Opened the window so the AC-unit fell out.



Providence is located close to the coast and a bunch of beaches. Pictured above is the famous Newport cliffwalk.



Team photo with other interns at RSi.



Celebrating Swedish Midsummer in New York City with friends.

of the department to create a comprehensive document repository. Tobias works in the PMO, or the Project Management Office, where he works on internal projects to support the different departments. Working in the PMO gives him the possibility to work on many different things with the different departments. So far he has worked on the implementation of features that reduce duplicate work and streamline the onboarding process of new customers. Axel and Erik, together in the Customer Experience department, are handling customer issues and requests while also working on different long-term projects for the benefit of the department and the company as a whole.

We've all been treated very well at RSi. We have been given a lot of responsibility and we felt like a part of the team from day one. Working at a company that operates in a field where we didn't have much previous experience has proven to be a challenge but we've always felt that there's someone to turn to for help. RSi treats their employees very well and there are a lot of fun activities at the office for when you want to take a break from work.

We would like to thank all of our colleagues at RSi and the Providence office, especially our respective supervisors and the office manager Elaine, for giving us a warm welcome and the opportunity to work for this exciting company.

#### Axel Rebner

**Born:** 1994 in Staffanstorps, Sweden | **Present education:** B.Sc. in Industrial Engineering and Management | **Future plans:** Finishing my internship and travel. | **Best memory:** Midsummer in New York. | **Worst memory:** Walking home from the train station after the delayed train from Boston.

#### Tobias Roos

**Born:** 1994 in Gothenburg, Sweden | **Present education:** B.Sc. in Industrial Engineering and Management. | **Future plans:** Finishing my internship and then doing some traveling. | **Best memory:** Celebrating Swedish midsummer in New York with some fellow intern friends. | **Worst memory:** Leaving the 4th of July fireworks early in order to make the train (that was delayed due to the fireworks).

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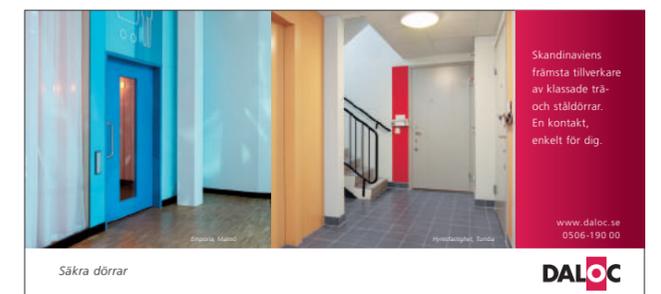
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# GREETINGS FROM AMCIP 2017



The board and the members of AMCIP 2017.

Another year of preparation has ended with the departure of the group of 2016. Currently spread across the whole continent of North America with exciting internships, they are creating memories for life. The attractiveness of such an adventure has contributed to a tradition of not just dreaming, but actually making an effort to travel together. Even though we have one long year before departure for AMCIP 2017, preparations have already started. Besides welcoming the new members of our organization we are also welcoming the long awaited name-change; from USASIP to AMCIP. The name "American Chalmers Internship Program" reflects the fact that our

organization has grown beyond the borders of the US too also include Canada.

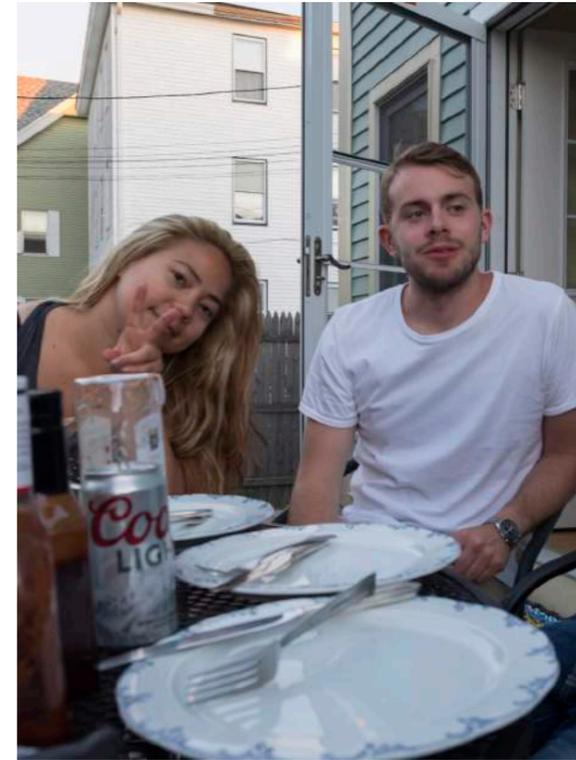
The board together with all members will work harder than ever to open the eyes of all new Chalmers students to the surprising possibilities available at the University. Our goal will always be to encourage complementing studies with interesting and developing causes.

We wish all readers a year as exciting as the one we are preparing for and we would like to remind you that every goal is in reach working together.

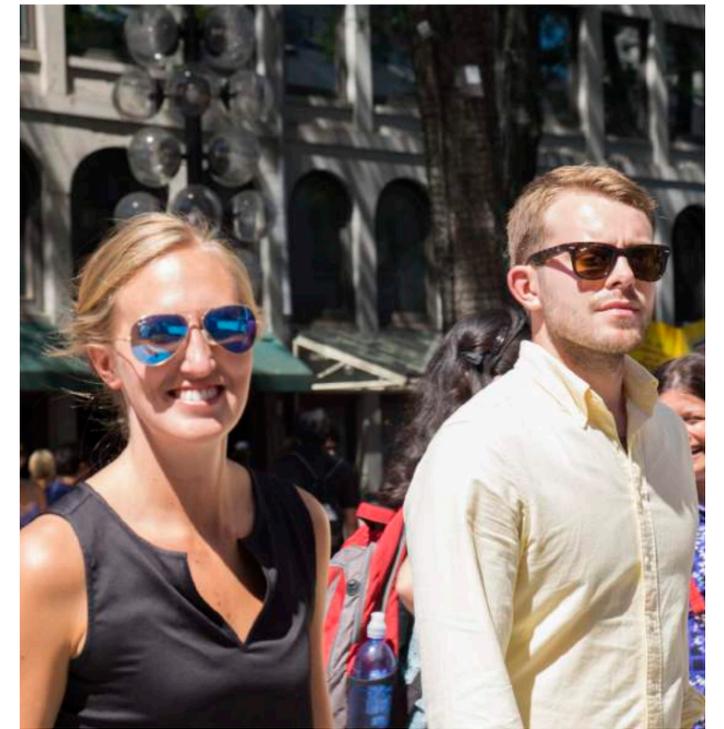
*AMCIP 2017*

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# Method and Tools for Virtual Product Realization



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- Geometry Assurance & Robust Design
- Geometry and Motion Planning
- Automation

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