Erik Thorsell

(011 46) 705 347 608
erik@thorsell.cc
erikthorsell.github.io

Objective

I spent the summer of 2016 working for NASA at the Goddard Space Flight Center, the following semester I worked for NEVS' SW/FW department, and the summer of 2017 I hold an intern position at Volvo Cars. I have tried a lot of things, and now I am out to find a new "one semester long challenge". Are you in need of reinforcement?

Education

Aug 16–May 18 (est.) **M.Sc.**, *CSALL*, Chalmers University of Technology, Gothenburg.
My studies at the Computer Science, Algorithms, Languages and Logic program are concentrated on artificial intelligence, machine learning as well as the ethics concerning those fields.
GPA: 4.8 / 5

Aug 13–May 16 **B.Sc.**, *Computer Sc. & ENGG*, Chalmers University of Technology, Gothenburg.
A broad education that teaches everything from calculus and control systems to databases and FPGA programming. The education exposed me to the diverse and complex field of CSE and gave me opportunity to try bits and pieces from all parts of the field.
GPA: 4.4 / 5
Thesis: `http://bit.ly/2g04d3q`

Aug 11–Jun 12 **Team Training School West (TTS)**, Dalkarlså Community College, Dalkarlså.
A theological education with emphasis on leadership. Not only did the education cast light upon the complexity that comes with organizing a large community, I also got a better understanding of the importance of structuring my own everyday work.

Experience

Jun 17–present **Intern**, Volvo Cars, Gothenburg.
Currently enrolled in Volvo Cars Engineering Student Concept (VESC) Programme. I work as part of the "tools team" (the tools are mainly Jenkins, Batch, Python and Matlab), ensuring the developers and testers are able to do their work.

Oct 16–Apr 17 **Engineer**, NEVS, Trollhättan.
Along side my master studies I worked part time for National Electronic Vehicle Sweden. My work was conducted at the SW/FW department and was concerned mostly with BMS modelling in Matlab and visualizing said models in LaTeX.

Summer 2016 **Intern**, NASA, NVI Inc., Greenbelt, MD.
During a 10 week internship at Goddard Space Flight Center I worked alongside two other interns on two software projects. Our work resulted in a new way for the VLBI groups all over the world to calculate slewing models for their antennas.
Link to work: `http://bit.ly/2c90Rv7`

Aug 14–May 16 **Supplemental Instructor**, Chalmers University of Technology, Gothenburg.
The role of a "supplemental instructor" is to help students to teach themselves by providing the students with material that challenges them, and then guide them through their work.
I have instructed all of the math courses given at the computer science program.

Aug 13–May 17 **Chauffeur / Seller**, Åkes Äkta Hönökaka, Gothenburg.
Delivered products from the bakery to the customers, primarily various grocery stores. An optimistic attitude was a must when your workday starts well before six in the morning and you were faced with everything from morning traffic to grumpy personnel.

Positions of Responsibility

May 17–present **Chairman**, Chalmers Software Craftsmanship Guild, Chalmers Uni. of Technology.
Elected as chairman for Chalmers' newly founded society, focused on open source software development and capture the flag competitions.

Aug 15–May 16 **Commissioner**, The Educational Advisory Council, Chalmers Uni. of Technology.
Elected as a member of the educational advisory council at Chalmers University of Technology, responsible for the communication between the students and the professors. During my year on the council I improved my ability to "make a case", both for myself and those I represented.

Jan 15–May 16 **Student Ambassador**, Chalmers Com & Ad, Chalmers University of Technology.
As an ambassador for Chalmers University of Technology I attended exhibitions and schools representing both Chalmers and my program of study, Computer Science. I was able to work more on my "public speaking skills" and to "sell my school and program".

Computer skills

VHDL Designed a RISC CPU, and configured an FPGA with said CPU, during the course Digital Design.

Haskell Wrote a type checker and interpreter, as well as a code generator in Haskell for the course Programming Language Technology.

Fortran During my internship at NASA this was the main language used as we rewrote the I/O part of Calc/Solve.

Typescript Together with four other students, I wrote an AI similar to Shrdlu, in the course Artificial Intelligence.

Java Most commonly used language during my B.Sc. in which I for instance have implemented data structures, sudoku solvers and path finding programs for community transits.

Erlang Created an IRC inspired chat software (server & client) during the course Concurrent Programming.

Python My goto language for doing all sorts of small programs. Also the language used for the second project during my internship at NASA.

Matlab Familiar with the basics of Matlab. As well as GUIDE, in which I refurbished an app for NEVS.

C Acted as team leader for a project at Chalmers where our team created a version of the game Bomberman for an ARM-based computer.

Scripting If I find myself doing a task more than once I will look into the possibility of scripting said task. These scripts I often write in Bash or ZSH, but I also have experience with Windows Batch Scripting.

Operating Systems Comfortable using: Linux, macOS, BSD and Windows.

Certificates Cisco Certified Networking Associate (CCNA) Routing and Switching version 5.0

Licenses and Languages

Licenses MC/Car: AM/A1/A2/B
Fork Lift: A2/A4/B2

Languages **Swedish** – Mother tongue
English – Professional proficiency