Erik Thorsell

Automating everything and taking DevOps to the masses

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Experience

Jul '20–present **Team Facilitator**, Ericsson (Packet Core), Gothenburg.

As the CDD Project at Packet Core grew in size, I naturally took a leadership position within the project (both technically and operationally). I also participated in a global workgroup, tasked with defining what would become my new role within the organization. As a Team Facilitator I am responsible for the performance of the project's XFTs. I coach the teams in agile principles and help them perform at their highest level. Being one of the most senior people in the project, I remain involved in architectural/design decisions for our different products. I also use any free time I have to continue to develop our internal CI/CDD process.

Jun '18–Jul '20 **Software and Business Area Developer**, HiQ, Gothenburg.

In addition to my regular assignments (listed below), I was responsible for HiQ's CI/CDD and AI/ML business areas. I held internal workshops on the topics and acted as advisor for our sales department.

May '19 – Jul '20 **Software Engineer**, Ericsson (Packet Core), Gothenburg
I was one of the first people to join Packet Core's Continuous Delivery & Deployment (CDD) project. CDD is used to automate the upgrade procedure of Packet Cores' network functions, ensuring critical telecom infrastructure receive up-to-date software. Due to the small size of the project, I took part in all aspects of the product design, development and testing.

Jun '18 – May '19 **Software Developer**, Volvo GTT, Gothenburg
I was part of the Vehicle Automation group and helped Volvo GTT take the next step for automated trucks, buses, and construction equipment. My team — Transport Missions and Route Management — was tasked with fleet management, planning, and communication with the autonomous vehicles. At VA I developed the Continuous Integration (CI) tool chain for the Java (and some C++) based products in the project.

Sep '17–Dec '17 **Machine Learning Engineer**, Machine Intelligence Sweden, Gothenburg.

Worked with the product Science Router, a search engine to enable companies and researchers to find competence in accordance to their needs. I was involved in all steps of the product development but focused mostly on data aggregation, using Python to interact with publication sites' APIs. I was also responsible for parsing all articles into a unified format, to be stored and used for algorithm training.

Summer 2017 **SW Development and Operations**, Volvo Cars, Gothenburg.

Was selected to be part of Volvo Cars' Engineering Student Concept (VESC) Programme. As part of the "tools team" (the tools were mainly Jenkins, Batch, Python and Matlab), I helped maintain and develop the in house "Software Factory" (SF). During the summer I, among other things, converted the Jenkins part of the SF to Declarative Pipelines and automated a series of tasks, freeing up hours for the developers.

Oct '16–Apr '17 **SW / FW Developer**, NEVS, Trollhättan.

Along side my master studies I worked for National Electronic Vehicle Sweden. My work was conducted at the SW/FW department and was concerned with BMS modelling and visualization of said models. During this period I developed a GUI for such a BMS-model, using Matlab GUIDE.

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: `https://github.com/ErikThorsell/GSFC_Internship`

Aug '14–May '16 **Supplemental Instructor**, Chalmers University of Technology, Gothenburg.

Used the flipped classroom method to help students teach themselves; by providing the students with material that challenged them and guided them through their work. I have instructed all of the math courses given at the computer science program.
Link to work: `https://github.com/ErikThorsell/sichalmers`

Education

Aug '13–Jun '18   **BSc, MSc, MScEng**, *Computer Science*, Chalmers University of Technology, Gothenburg.
I hold a BSc and an MScEng in computer science and engineering. My MSc concerned *Computer Science, Algorithms, Languages and Logic* and I concentrated my studies to machine learning, artificial intelligence and optimisation.
Theses: BSc: `http://bit.ly/2g04d3q` & MSc: `https://bit.ly/2tHBCZD`

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.

Positions of Responsibility

May '17–Jun '18   **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 Uni. 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".

Tools and Languages worth highlighting

GitLab CI — Took part in migrating the CDD project's VCS and CI/CDD solution from gerrit + Jenkins to GitLab CI. Also shared the responsibility for the CI/CDD alongside my TF obligations.

Jenkins — Experience creating scripted integration and test pipelines. I have used pipelines to build applications written in Java, Python, and C++. I also have experience with JCasC.

Spinnaker — Orchestration tool that we used at Ericsson to deploy software in customers' networks. An open source orchestration tool, originally built by Netflix, tailored to CDD.

Artifactory — Version Control is key. I have spent a lot of time thinking about and implementing version control at different companies. When versioning binaries/deliveries, I have used Artifactory.

Docker — Used both professionally and for personal projects. I used Docker when I setup the development environments and CI/CDD tool chain at VA, to allow for versatile deployments and ease of maintenance.

Golang — During 2020's Advent of Code, I decided to try Golang. I really like it and have dabbled with it some more, but never in a production like setting. I would love to try it out more!

Python — My language of choice. I have used Python everywhere when it's been my decision: NASA, MIS, Volvo, Ericsson. Python is also the choice for most of my personal projects.

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, but I also have experience with Windows Batch Scripting.

Key interests   `DevOps | Automation | Agile | Improvement of Daily Work | Continual Learning`