Sven Eriksson
Phone: +46 70 230 9559
Email: sven@svene.se
Website: svene.se

The website is a more detailed resume and portfolio site.

PROFESSIONAL EXPERIENCE

Feature Developer, Zenuity and later Zenseact, Gothenburg, Sweden *2018/05-*

Work tasks and responsibilities has varied throughout the years. I have been working with development of adaptive cruise control as well as comfort behaviour for unsupervised driving system. My work has included feature definition, requirement handling, software development, and testing on various levels. The teams worked according to Scrum and I am/have been a part time Scrum master for some of these teams. I am engaged in working to improve the company processes and quality of our product from a feature developer perspective. When I started we developed in Matlab/Simulink but we eventually transitioned to developing our software using C++.

Local union representative and employee representative on the Board of Directors 2020-. Within these roles I represent our members in local negotiations, when participating in recruitment of managers, and in other discussions with the employer.

System Developer, Combitech, Gothenburg, Sweden *2017/12-2018/04*

Consultant working on customer project as software developer utilizing mainly C++ to develop software for telecom base stations. The team worked according to Scrum.

Engineer Vehicle Motion Control, NEVS, Trollhättan, Sweden *2017/01 - 2017/11*

I developed ADAS functionality, such as adaptive cruise control, for company internal demonstration and test vehicles. Working both with system design and software implementation.

Summer job, Chalmers, Gothenburg, Sweden *Summer of 2016*

I designed, assembled, and configured a hexacopter and related systems. It was designed to be able to carry sensors for use in education and research.

Machine operator, SKF, Gothenburg, Sweden *Summers of 2014, 2013, 2012 and 2011*

EDUCATION

Complex Adaptive Systems, Master Program *2013-2016(2018)*

Chalmers University of Technology, Gothenburg

The focus of my master program is to use recently developed methods from complexity science to analyze a wide range of systems. Courses included computer simulations of complex systems, robotics and machine learning. Degree received 2018.

Master thesis: Real-time kinematic positioning of UAS

Engineering Physics, Bachelor program *2010-2016(2018)*

Chalmers University of Technology, Gothenburg

The bachelor program combines studies in physics with problem solving and engineering skills. Last course completed and degree received 2018.

Bachelor thesis: Wireless Transmission of HDMI signals

Self-Driving Car Nanodegree Program   *2017*
Udacity, Online
Several smaller projects related to developing ADAS and Autonomous drive functionalities. Projects related
to computer vision, deep learning, sensor fusion, localization, and path planning. See personal website and
github for a more detailed list of projects.

Study Abroad, Economics and General Education   *2014/2015*
California State University, Fullerton, USA
During the year in California I learned how it is to live in a different culture. During the time at CSUF
I studied mostly economics and finance in order to get an understanding about companies and the society
around us.

Other courses
I have taken introduction courses and read books in several subjects I found interesting. Such as economics,
organization psychology, agile methodologies, software development practices, etc. The larger individual
courses are listed on my webpage.

EXTRACURRICULAR ACTIVITIES

Society of Unmanned Aerial Vehicle Engineers, Fullerton, California, USA   *2014/2015*
Our club participated in the Student Unmanned Ariel Vehicle competition. The club consisted mostly of
mechanical engineering students focusing on building the aircraft as part of a course. My contribution was
to develop software and setup hardware systems to guide the aircraft to appropriate waypoints based on
in-flight updates from the judge's server. In addition to this I also wrote the image capturing and image
download scripts as well as some failure handling scripts in case of in-flight communication failure.

F-spexet, Gothenburg, Sweden   *2011-2014*
F-spexet is a non-profit student association that sets up a theater show each year. I served as it treasurer
during two years. During these two years we had approximately 50 members and a yearly revenue of 125,000
kr. After that I served as a board member for a year, acting as an advisor to the president and treasurer.
During my last year I led a group of five persons responsible for constructing the stage and making props
for the show.

OTHER QUALIFICATIONS AND SKILLS

Programming Languages: C, C++, Python, and Java. Mostly for simulation, computations, tool scripting,
or for embedded applications. No or little experience on working with UX.

Software: MATLAB, Simulink, Canoe, LaTeX, some experience running Linux servers.

Driving Licence: Full Swedish driving licence for cars. T2 certificate for Hällered test track

INTERESTS

Scuba diving, alpine skiing, water skiing, spending time with friends, board and computer games with focus
on strategy games and occasional hobby programming.