Mats Nilsson

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Work Experience

Mar 2020 – | **Software Developer** Zenseact/Zenuity, Gothenburg

current Developed an image processing component in C++ and CUDA using classical methods

for detecting general objects on or near the road. The component was part of a software stack for autonomous vehicles and therefore had strict requirements on performance,

runtime and standard compliance.

Aug 2018 – **Software Developer** SICK IVP, Linköping

Mar 2020 | Full stack developer for a 3D line camera called TriSpector. Work included everything

from fixing things in the low level Linux kernel domain, developing fast machine vision algorithms in C++ and making them easy to use in a graphical user interface written in Java. Partly responsible for maintaining DevOps features like build servers, git

migration and Docker images.

Aug 2016 – Course assistant Department of Computer and Information Science, Linköping Uni.

Jan 2017 Teaching assistant in an algorithms and data structures course in C++ for third year university students. I held classroom lessons, computer labs and graded assignments.

Education

Jan 2018 – | Master Thesis Saab Dynamics, Linköping

Jun 2018 | Developed a building reconstruction Markov chain Monte Carlo-algorithm written in

C++ with OpenCV for improved geometric accuracy of buildings in digital height

models.

Feb 2017 – Study Abroad Semester Auckland University of Technology, New Zealand

Jun 2017 Took courses in real time systems, data mining and machine learning, artificial

intelligence and natural language processing.

Aug 2013 – M.Sc. Applied Physics and Electrical Engineering Linköping University

Aug 2018 The courses provided depth and breadth in mathematics, physics and electrical

engineering while doing advanced problem solving alone and in teams. Specialized

with a master in signal and image processing.

Skills

Languages | C++, Python, CUDA, Bash, C#

Tools | Git, Docker, Bazel, Bitbake, Yocto, SVN

OS Good knowledge in multiple Linux distributions as well as Microsoft Windows

Languages

Swedish | Native tongue

English Highly proficient in both written and spoken English