LUKAS PETERSSON

Engineering Student and Hobbyist

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PROFESSIONAL EXPERIENCE

Google
Zurich
June 2022 - Sept 2022

Software Engineering Intern
- Automated data analysis by training a Decision Forest model
- Discovered weakness in training data by visualising it in graphs

CommaAI
San DIego
Mar 2022 - June 2022

Engineer Intern
- Orders of magnitude CI time reduction by parallelization compute
- Discovered latency bottlenecks by building timestamping tool

European Space Agency
Noordwijk
May 2021 - Sept 2021

Flight Software Systems Intern
- Implementing a semantic validator for a low-level language using modelling tools
- Significant improvement on existing technology

Lunicore
Lund
Nov 2019 - Jan 2021

IT Consultant
- Enabled small businesses digitalize by building full-stack web tools
- Agile approach in dialogue with the customer

Ericsson
Stockholm
Jan 2019 - May 2019

Software Engineering Intern
- Improved internal communication by developing a real-time file sharing web app
- Developed an improved Android phone app with Kotlin

Digital Edge
Stockholm
Nov 2018 - July 2019

Junior Robotics Software Developer
- Enhanced robot-human interactions by building user friendly interfaces and implementing facial recognition and speech-to-text libraries

EDUCATION

Lund University
Aug 2019 - May 2024

Engineering Physics (M.Sc + B.Sc)
- GPA: 4.9 (out of 5)

Lund University
Aug 2019 - May 2024

Engineering Mathematics (M.Sc + B.Sc)
- GPA 5.0 (out of 5)

ETH Zurich
Sept 2022 - Sept 2023

Exchange Year
- Machine learning, Robotics

EXTRACURRICULAR

Aris
Zurich

Robotics Software Specialist
- Underwater robot to explore the oceans of Jupiter and Saturn's icy moons

	July 2022 - Present	● Details are to be decided

Formula Student	**Self-Driving Engineer**
Lund July 2021 - Aug 2022	● Turing Sweden's best Formula Student car autonomous with ML ● Improved state estimation by building an Extended Kalman Filter library

European Space Agency	**Fly a Rocket!**
Andøya Nov 2020 - Oct 2021	● Selected as one out of 24 students from all of Europe ● Principal investigator for sounding rocket launch campaign

Skåne Startups	**Lund Startup Fellowship**
Lund Nov 2019 - June 2020	● Organised entrepreneurial events for up to hundreds of guests ● Co-founded startup society

PROJECTS & COMPETITIONS

NCPC	**Competitive Programming**
2021	● Finished 3rd of all Swedish teams the Nordic ICPC qualifiers

CommaAI Challenge	**Computer Vision Project**
2021	● Applied CNN and optical flow to achieve a better score than the internal solution

NCPC	**Competitive Programming**
2020	● 5th in sweden with only a two man team

BookLog etc	**Mobile Development**
2018 - Present	● Published 3 public apps on Play Store and built others to sell to businesses

BLOG & PUBLICATIONS

Ye Tools	**ML & Music Blog**
2022 - Present	● Forcing myself to deeply understand ML by communicating my ideas to others

MBSE	**Conference Publication**
2021	● Published and presented paper on Model Based Systems Engineering conference

Unga Forskare	**Science Competition**
2018	● Got to semi finals with a free-time research project in physics

OTHER

Programming skills: Python, Java, C++, Tensorflow, Pytorch, Web/mobile fullstack, Linux

Hobbies: Music theory, Running, Philosophy, Maths, Cooking, Pink Floyd

More jobs: Substitute teacher, Sales Assistant, Entertainer, Waiter, Golf coach, Dishwasher

More projects: https://github.com/lukaspetersson

More info: https://lukaspetersson.se