Teo Bergkvist

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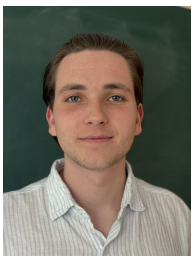

Education

2021 – 2026* ◇ **M.Sc Engineering Mathematics, Lund University**
Specialization: Machine Intelligence and Image Analysis. *Expected Graduation.

2022 – 2022 ◇ **Drone Technology Course, Lund Univeristy**
A course in drone flying and drone technology. (FLYF20).

2017 – 2020 ◇ **High School Degree, Katedralskolan Lund**
Science and mathematics specialization.

Employment History

June 2025 – Aug 2025 ◇ **ML Software Engineering Intern, Arm**
Contributed to ExecuTorch, got several commits merged into the open-source project which is a joint effort by Arm, Meta, Apple, Qualcomm, and more.

June 2024 – June 2025 ◇ **Robotics Engineer, LEVTEK**
Working with autonomous features, synthetic training data generation, BLDC motor control code and android development.

Dec 2023 – Aug 2024 ◇ **Driverless Software Developer, Lund Formula Student**
Developed a LiDAR-based system using ROS2. I was responsible for implementing perception algorithms to accurately identify cones within point cloud data.

Jun 2023 – Aug 2023 ◇ **Data Science Intern, Volvo Cars**
At the Analytics & AI department I worked with LLMs. I was also involved in a project where I developed code for IR cameras and worked with pose estimation and segmentation models.

Jun 2022 – Aug 2022 ◇ **Engineering Intern, Volvo Cars**
I conducted a study, developed software and analyzed data. Gained experience in computer vision and point cloud data.

Mar 2021 - Aug 2021 ◇ **Base Analysis Engineer, Volvo Cars**
I was contracted to conduct a study where 3D data was collected and analyzed at Volvo Cars Safety Centre.

Oct 2020 - Feb 2021 ◇ **Engineering Intern, Volvo Cars**
At Safety Centre I used Python to manage data in a safety related study. I developed an annotation software used by 20 employees.

Employment History (continued)

Aug 2020 - Oct 2020 ◇ **Software Developer, Castle**
I worked as a software developer in the Data Science team. Primary task was to develop bots for web activity, enabling the team to collect data on bot behavior.

Skills

Languages ◇ Swedish - Native,
◇ English - Fluent
Coding ◇ Python, MATLAB, (Java), (C++), (Kotlin), (Lisp)
Hardware ◇ 3D Printing, Soldering, Electronics debugging
Misc. ◇ Linux, Mathematical Modelling, Algorithms, Point Clouds, LaTeX

Miscellaneous

Papers

2025 ◇ **IEEE Access**
The Polarization and Impedance Controlled Car: An Interactive Tool for Teaching Electromagnetic Principles DOI: 10.1109/ACCESS.2025.3595273

Non-Profit

2024 – Present ◇ **Student Council Member, Royal Swedish Academy of Engineering Sciences**
I represent the students at Lund University on national issues related to technology, academia, and societal matters. Currently leading an internal project focused on deep tech.

2023 - Present ◇ **Founder, pynanovna**
Founded and developed a Python library to interface with a NanoVNA (a compact Vector Network Analyzer), enhancing accessibility and usability for precise signal analysis and diagnostics.

May 2019 - Aug 2020 ◇ **Head of events and Board Member, Katedralskolans Fristående Elevkår**
One of the biggest high school student unions in Sweden, with 1100 members.

Awards and Achievements

2024 ◇ **IEEE Student Design Contest, Winner**
I was the team leader of our project: Polarisation and Impedance Controlled Car (PICC). Along with three undergraduates and one PhD student we ended up winning first place at the IEEE AP-S URSI conference in Florence.

◇ **Ericsson Research Foundation**, Grant

2019 ◇ **Award for excellent study results**, Katedralskolan Lund.
From Sture Ljungdahls premiefond.

References

Available upon request.