

# Nils Backlund

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## EDUCATION

### Chalmers University of Technology

2021-2026

*Engineering Physics*

*Gothenburg, Sweden*

- Modules included: Flow and Strength Theory, Electric Theory, Electric power engineering, Quantum Mechanics, Artificial Neural Networks, Humanoid Robotics, Statistics and Machine Learning in High Dimensions
- Bachelor thesis: Adapting energy infrastructure for a fully electric car fleet
- Master in Complex adaptive systems

### Nanyang Technological University

Spring 2025

*Exchange semester*

*Singapore*

- Modules included: Deep Learning, Time Series Analysis, Leadership, Operations and processes

## EXPERIENCE

### ASML

2025-2026

*Master Theses Intern*

*Veldhoven, Netherlands*

- Planned project in AI-driven thermal modeling

### AI Sweden

2025

*Industrial Immersion Exchange program*

*Gothenburg, Sweden + Dakota State University, SD, United States*

- Summer internship in AI and cybersecurity in collaboration with people from Sweden and Dakota State University. Built an end-to-end LLM attacker-honeypot framework that generated a labeled MITRE ATT&CK dataset and improved honeypot engagement

### Andon Labs

2025

*Intern and part time*

*San Francisco, United States*

- Helped develop Safe Autonomous Organization, primarily developing in Python and evaluating and evolving the Human in the Loop system of their vending machines.

### Tiego

2022 – 2024

*Junior Developer*

*Stockholm, Sweden*

- Part-time and summer intern at a digital accounting firm. Developed webpages using Angular to migrate products from Excel and to develop new products.

### Chalmers Formula Student (CFS)

2023 – 2024

*Electronics Engineer*

*Chalmers, Gothenburg, Sweden*

- Contributed to the development of the electrical system in CFS's electric race car, primarily designing PCBs with Altium and being a part of battery manufacturing. Gained introductory experience in engineering assemblies with the CAD software NX.

## PROJECTS

**Bilissimo:** Developed an iOS app in Swift designed to easily compare all electric vehicles on the Swedish market 2020

**Ellas Café:** A digital café in Stockholm. Part of tech. | *Technologies used:* TypeScript, Swift 2021

## COMMUNITY & LEADERSHIP

### F6

2022-2023

*Head of catering*

*Gothenburg, Sweden*

- Served as the head of catering for one year planning, preparing and serving three-course meals at parties, each hosting up to 200 guests

### Deputy Speaker

2023-2024

*Physics divisions*

*Gothenburg, Sweden*

- Served as the deputy in charge of the Engineering Physics Student Division meetings for one year

## TECHNICAL SKILLS

**Languages:** Python, (Java|Type)script, MATLAB, Mathematica, Swift,  $\text{\LaTeX}$ , HTML, CSS, R

**Libraries & frameworks:** Angular, PyTorch, Pandas, NumPy

**Applications:** MS Office suite, Altium Designer, Figma, NX (basic familiarity)