



Adam Michelin

Student
B.Sc Electrical Engineer

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About me

I am a highly motivated Electrical Engineering student at Chalmers University of Technology with a passion for tackling complex technical challenges. My interests span across power systems, electronics, and control systems, and I am eager to contribute to cutting-edge innovations. I thrive in environments where I can apply my knowledge to real-world problems and learn from hands-on experiences. My goal is to develop expertise that helps drive technological advancements

Engineering Consultant

@ Chalmers Teknologkonsulter
Gothenburg | 2024



As part of the engineering team alongside my studies, I worked on specialized projects in product development, energy systems, simulations, and technical analysis. This role was crucial to my problem-solving skills and deepened my understanding of real-world engineering challenges. I was awarded a diploma as the team's Highest Achiever of the Month, recognizing my contributions to implementing a data-driven approach to improving team performance.

Technician / Operator

@ Magna Electronics
Vårgårda | 2023-24



I was responsible for optimizing and maintaining advanced machinery used in the manufacturing and testing of vehicle safety cameras, including high-precision assembly robots, automated optical inspection systems, and environmental testing chambers. This role required ensuring these systems operated at peak efficiency while maintaining strict quality standards in cleanroom environments, critical for producing reliable components.



B.sc Electrical Engineering

Chalmers University of Technology

2022-2025

Gothenburg, Sweden

Academic Experience

During my studies, I've worked on projects that integrate energy-efficient solutions and advanced control systems, which have sharpened my problem-solving skills with a focus on real-world applications. I've found courses in control theory and electronics especially interesting, helping me build a solid foundation for engineering roles that require both technical expertise and creative thinking.

Previous Projects

Here are some of my key projects. For a more detailed overview and a full list of my work, feel free to visit my website at adammichelin.dev.

You can also click on the project cards to view the corresponding project reports for more in-depth information.

Advanced Autonomous Ventilation System

Independently developed a smart ventilation system for a Stockholm facility, optimizing airflow using real-time data to reduce energy costs. The system used mmWave technology for occupancy detection and a centralized server for control via a ZeroTier virtual network.

3 - Phase Home Power Meter

Developed a non-intrusive circuit to monitor and manage energy consumption across multiple phases at home, enabling the user to optimize their electricity usage by viewing consumption, prices and load, all in a centralized dashboard connected to the home wifi

Capacitance-Based Fluid Flow Measurement

The focus of this project is to measure water flow without disturbing existing pipes, it's been a shorter, and rather math-heavy project that has been an excellent opportunity to deepen my understanding and comfort with capacitors, a vital component in any electrical engineer's toolkit.



Entrepreneurship

- Innovation
- Problem-solving
- Research&Development
- Team building



Design

- CAD
- 3D-Printing
- Laser Engraving
- UI, UX



Programming

- C, C++, Python
- AI, ML
- ESPHome, IoT
- NodeRed



Electronics

- PCB
- Microcontrollers
- Micropython
- PlatformIO