

# Fredrik Olsson

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## Profile

Mechatronics engineer and master's student in Embedded and Intelligent Systems at Halmstad University. Strong interest in electronics, robotics, embedded systems, and AI. Engaged in multiple University projects and is comfortable working both independently and in group.

## Work Experience

### Dyk & Båt AB, Ringhals Väröbacka

*Dive Leader & Tender (Summer/Part-time)*

2017–

Support to divers before, during and after dives. Planning and documentation of underwater operations, safe communication, and emergency preparedness.

### Coloplast AB, Kungsbacka

*Picker/Packer*

2018

Order picking and packing under time pressure with accuracy requirements.

## Projects

### Aquality, Halmstad University

*Electronics Engineer*

2021–

Design, development, and assembly of electronics (PCBs, sensors, power systems) for an autonomous surface vessel collecting environmental water data.

### Halmstad University Solar Team (HUST)

*Electronics Group Leader*

2021–2023

Responsible for the electronics group and participated with a solar-powered car in the Bridgestone World Solar Challenge 2023 in Australia.

### Halmstad University Solar Team (HUST)

*Battery Officer*

2020–2021

Developed and built battery packs with balancing and safety systems. Practical experience with CANbus.

## Education

### Halmstad University

*M.Sc. Embedded and Intelligent Systems*

2024–

Networks, real-time systems, robotics, machine learning (AI).

### Halmstad University

*B.Sc. Mechatronics Engineering*

2019–2022

Electronics, mechanics, control theory, actuators, data structures, and embedded systems.

### F21, Luleå

*Basic Military Training*

2017–2018

Teamwork and endurance under physical and mental stress.

### Elof Lindälvs Gymnasium, Kungsbacka

*Technology Program, Engineering Science*

2014–2017

Specialization in mathematics and engineering.

## Skills

**Programming:** MATLAB, C, Java, Python, Assembly

**CAD:** SolidWorks, Onshape

**ECAD:** Altium, EasyEDA

**Other:** LaTeX, Office, 3D printing

**Languages:** Swedish (native), English (fluent), German (basic)

## Other

Driver's license (B), Coastal skipper certificate

## References

### HUST and Aquality

Assoc. Professor Joakim Tell, Halmstad University

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### Dyk & Båt AB

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