

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

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Dyk & Båt AB

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