



# Ole Magnus Lærum

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## Education

### MSc, Cybernetics and Robotics, NTNU

Trondheim, Norway | Aug. 2021 - Jun. 2026

Norwegian University of Science and Technology | GPA: 4.14/5.00 (B+)

- Currently writing my master thesis on **unsupervised machine learning using computer vision** for fish welfare
- 5-year engineering program: control engineering, AI, mathematics, electronics and computer vision
- **Exchange:** Polytechnic University of Valencia, coursework in AI and computer vision, Spring 2025

### MSc. Energy and Environmental Science, NTNU

Trondheim, Norway | Aug. 2020 - Jun. 2021

Norwegian University of Science and Technology

- Completed the first year before transferring due to a newfound and accelerating interest in Cybernetics and Robotics.

### Upper Secondary School(Science Track)

Bergen, Norway | Aug. 2016 - Jun. 2019

Amalie Skram VGS | Førstegangsvitnemål of 61.6 points

## Technical Work Experience

### Water Linked AS | Summer Intern - R&D

Trondheim, Norway | Jun. 2025 - Aug. 2025

- Developed **live SLAM** using 3D sonar and DVL sensors, ROS2 and Python, improving underwater mapping <sup>[1]</sup>
- Created official documentation for installation of Water Linked's new 3D sonar on four ROVs <sup>[2]</sup>

### Bekk Consulting AS | Summer Intern - Data Analysis

Oslo, Norway | Jun. 2024 - Aug. 2024

- Created an **"AI Document Checker"** program for an external client using image processing and machine learning with Python, prompt engineering, and OpenAI API

### Element Logic AS | Summer Intern - R&D

Kløfta, Norway | Jun. 2022 - Aug. 2022

- Created a prototype **"Autonomous Strawberry Picker"** using a Panda Robotic Arm with AI object detection for ripeness assessment and harvesting. Used Python, C++, CAD for 3D modeling, and AI camera vision <sup>[3]</sup>

### Fuel Fighter (Student Organization) | Mechatronics Engineer

Trondheim, Norway | Sept. 2021 - Aug. 2022

- Developed mechatronics for the autonomization of a hyper-energy-efficient electric vehicle. Programmed microcontrollers (Teensy, Arduino) with C++, Python, and ROS2, while using DC-motors, soldering, CAD in Fusion360 and electronics
- Achieved first ever autonomous Fuel Fighter operation, **placing 3rd** at Shell Eco Autonomous Competition, France

## General Work Experience

### NTNU - Procedural and Object-Oriented Programming (C++)

Trondheim, Norway | Spring 2026 (Incoming)

Teaching Assistant (150h) - TDT4102

### NTNU - Control Systems

Trondheim, Norway | Spring 2026 (Incoming)

Student Assistant - TTK4105

### NTNU - Linear System Theory

Trondheim, Norway | Fall 2024 and Fall 2025

Student Assistant (two terms) - TTK4115

### Realfagshjelpen AS

Trondheim, Norway | Sept. 2023 - Jul. 2024

Private Science Tutor (Part-time)

### Garnisonen i Sør-Varanger - Hæren

Finnmark, Norway | Aug. 2019 - Jul. 2020

Border Guard Conscript Soldier, Scout

## Personal Qualities

### Proactive and driven

If there is a hard challenge, goal or a deadline, I gladly roll up my sleeves and do what needs to be done.

### Team builder

I care deeply about building strong relations and helping others, always looking for ways I can contribute to and ensure team improvement and success.

### Adventurous and independent

From solo travel to meeting new people - I love jumping into the unknown and thrive navigating it independently.

### Passion for technology

I am thrilled by the technologies I encounter, enthusiastically sharing about my projects with friends and family. This passion gives me fuel to eagerly go the extra mile.

## Other

### Solo Backpacking Adventure Travel

Iran, India, Lebanon, Japan, Morocco, Bolivia, etc. | Sept. 2022 - Jul. 2023

10 months, 26 countries

- Fulfilled my dream of world travel, experiencing and tackling adventures like climbing atop a 6088m mountain, skydiving, and completing a 10-day silent meditation retreat.
- This experience developed my unusual comfort in approaching strangers and connecting with people across any background, meeting everyone with equal openness and respect. It also strengthened my independence and quick, optimistic problem-solving abilities, whether navigating chaotic Iranian bazaars, the streets of Rio, or remote Indian villages.

[1] Water Linked Internship Blog Post: [waterlinked.com/blog/careers-2/summer-internship-at-water-linked-25](https://waterlinked.com/blog/careers-2/summer-internship-at-water-linked-25)

[2] Water Linked Published 3D Sonar Documentation: [docs.waterlinked.com/sonar-3d/sonar-3d-15-deep-trekker-rov](https://docs.waterlinked.com/sonar-3d/sonar-3d-15-deep-trekker-rov)

[3] Element Logic Internship Blog Post: [elementlogic.net/news/summer-internship-to-the-next-level-with-vertical-farming/](https://elementlogic.net/news/summer-internship-to-the-next-level-with-vertical-farming/)