

AKSEL KRISTOFFERSEN

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EDUCATION

M.Sc. – NTNU

Cybernetics and Robotics

Robot Engineering and Vessel Control Systems

 2019 – 2021  Trondheim, Norway

This study program has provided me with:

- Solid basic knowledge in mathematics, ICT and engineering, and advanced knowledge in the areas of cybernetics
- The ability to design and develop advanced automated systems and implement these in industrial solutions

B.Sc. – NTNU

Electrical Engineering

Automation Technology

 2016 – 2019  Trondheim, Norway

This study program has provided me with:

- Knowledge in electric and magnetic fields, electronic components, processor systems, as well as automation systems and how they are programmed to regulate dynamic processes

SKILLS

TECHNICAL SKILLS

Modern C++ • Rust • Python • MATLAB • Qt
Linux • Docker • ROS • Protobuf • SQL • Git
Pytorch • HTML • CSS • Javascript • Svelte
Neural Networks • Optimization • Robot Vision

LANGUAGES

Native: Norwegian Fluent: English

OTHER WORK

Autonomy Dev – Vortex NTNU

 2019 – 2021  Trondheim, Norway

- Writing software for a non-profit student organisation developing an Autonomous Underwater Vehicle from scratch to compete in international competitions

Experience with Linux, ROS, C++, Python and Git

WORK EXPERIENCE

C++ Backend Developer – Infront

 Oct. 2022 – July 2024  Oslo, Norway

- Leading a project to develop an internal library for storage and calculation of intraday data, seamlessly replacing the existing legacy system, and overseeing its deployment into production.
- Providing support and guidance to new team members.
- Serving as an Agile Team Facilitator during cross-company PI planning events.

Experience with C++20, PostgreSQL, Protocol Buffers, PI Planning

Software Engineer R&D – Kongsberg Maritime

Consultant via Data Respons R&D Services

 Sept. 2021 – Sept. 2022  Oslo/Horten, Norway



I contributed to software development for both the Hugin AUVs and Sounder USV, working across two teams using C++17/20 with a strong emphasis on following the latest core guidelines.

1. **Within the topside team I worked with the Qt framework to deliver features and fix bugs for the remote operator station**
2. **In the autonomy team I was responsible for development and maintenance of the control and guidance systems for the vehicles**

Experience with Qt, C++17/20, Git, design patterns, agile methodology, code reviews, behavior trees and unit testing

Summer Intern IT – Equinor

Virtual Summer Internship

 June 2020 – Aug. 2020  Virtual

Participating in two different projects:

1. **Developing a new plug-in for visualization and analysis of subsurface modelling results**

Working in a team of four designing, developing and implementing the plug-in using Python

2. **Implementing a navigation stack setup for autonomous navigation of the Turob robot in ROS**

Mostly individual work implementing third-party modules for navigation, path planning and path following

Experience with ROS, Python, Git, HTML, Dash, Plotly and Pandas

Student Teaching Assistant – NTNU

 Aug 2019 – July 2020  Trondheim, Norway

- Facilitating students during learning sessions and evaluating their weekly assignments