

Edvard Sire

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EXPERIENCE

Perception coach, Ascend aerial robotics team (Jul 2024 – Current)

- Researching and benchmarking the [RK3588S SoC](#) for [IARC mission 10](#)
- Benchmarking machine learning models in [Isaac Sim with PX4 SITL](#)
- Researching monocular based avoidance and path planning
- Coaching new members on machine learning, sensors and Git

Research and Development Intern, DNV (Jun 2024 – Aug 2024)

- Implemented [Informed RRT* collision avoidance](#) using the [NAV2 stack](#)
- Ported custom simulator <-> [cloud simulation](#) interface to ROS2
- Installed 5G on [physical vessel](#) and setup secure WireGuard connection
- Researched state of the art marine collision avoidance

Perception team lead, Ascend aerial robotics team (May 2023 – Jul 2024)

- Led a complete hardware/software package for [detecting, classifying, and localizing objects](#). Spent 350 h testing pipeline and drone at local airfield.
- Developed with: PyTorch, OpenCV, U2-net, G-CNN, VGG-Net, YoloV8, TensorRT, GStreamer, ROS2, C++, Python, Blender, JetPack SDK, HPC
- Recruited 5 members from a pool of 200

Developer Consultant Intern, Aboveit (Jun 2023 – Jul 2023)

- Created [build/publish pipeline](#) for a [React native application](#)
- Created internal tooling, monorepo structure and automatic testing
- Taught other interns basic React native concepts and Git usage

Perception member, Ascend aerial robotics team (Aug 2022 – May 2023)

- Researched and developed on the [Allied Vision Alvium](#) 1800 U-2050c
- Developed on the [NVIDIA Jetson](#) Orin NX platform
- Competed in [SUAS](#) (US venue)

Developer, Aboveit (Oct 2022 – Jun 2023)

- Created a datepicker component for the [Skyworker](#) design system

EDUCATION

M.Sc. Cybernetics and Robotics at NTNU Trondheim (2022 – today)

Extra courses: TDT4265 Computer Vision and Deep Learning,

TTK4250 Sensor Fusion

Elektro-TEK at Glemmen Upper secondary school (2019 – 2022)

Specialization in General Studies with complementary mathematics, physics and vocational training focused on computer and electronic systems

GPA: 6.2/6.4

PROJECTS

Checkout my [Github!](#)

I would like to highlight building a [Brushless DC motor from scratch](#)

ABOUT ME

In my free time I enjoy building [keyboards](#), playing chess, programming in [Neovim](#), skateboarding, ski touring, [NixOS](#), classical literature, and open source

Other

Elected representative for electrical department at Glemmen Upper secondary

References can be provided upon request