

Sigmund

Hennum Hoeg

17. Nov 1997, Norway, Graduate Student in Robotics

 (+47) 47679394	 linkedin.com/in/sigmundhh
 sigmundhh@gmail.com	 github.com/sigmundhh

EDUCATION

Norwegian University of Science and Technology (NTNU)

Ph.D. in Engineering, Aug 2022–Jun 2025, [ntnu.edu](https://www.ntnu.edu)

In the Robotics and Automation group, supervised by Lars Tingelstad. Focus on robotic manipulation in unstructured environments.

ETH Zürich, Switzerland

Exchange, Feb 2021–Feb 2022, [ethz.ch](https://www.ethz.ch)

With the SEMP Scholarship. Completed courses at graduate level, including *3D Vision*, *Probabilistic Artificial Intelligence*, *Autonomous Mobile Robots*, *Vision Algorithms for Mobile Robots* and *Computational Models of Motion*. Group projects including *AR Dataset for Egocentric Action Recognition*.

NTNU

Master of Engineering and ICT, Aug 2017–Jun 2022, 300 ECTS, [ntnu.edu](https://www.ntnu.edu)

Computer Science, Mechanical Engineering. Specializing in Robotics and Machine Learning, specifically Computer Vision and Reinforcement Learning.

Sandvika High School

General studies, Aug 2013–Jun 2016,

[esero.no/prosjekter/cansat](https://www.esero.no/prosjekter/cansat)

Specializing in science: math, physics, chemistry, and ICT. Excursion to CERN, participation in the CanSat-competition at Andøya Space Center.

PROFESSIONAL EXPERIENCE

Eltorque AS, Trondheim, Norway

Application developer, Jun 2020–Feb 2021

[eltorque.com](https://www.eltorque.com)

Software application development using WXPYthon, with CAN and USB interfaces to hardware, increasing functionality and user experience. Automated acceptance testing using Robot Framework.

Saga Robotics, Ås, Norway

Internship, Jun 2019–Jul 2019

[sagarobotics.com](https://www.sagarobotics.com)

Improved navigation solution for an autonomous agricultural robot in demanding outdoor conditions. Used ROS, C++ and Python.

NTNU, Trondheim, Norway

Instructor, Jun 2018–Jul 2019

[kodeloypa.wordpress.com](https://www.kodeloypa.wordpress.com)

Executed educational program introducing programming to middle school students. Part time position.

Øvrevoll Hosle Sports Club, Hosle, Norway

Cross Country Skiing Coach, Aug 2014–Jun 2016

Planned and executed a training program for children aged 7-12. Part time position.

PROJECTS

Shift Hyperloop NTNU, Trondheim, Norway

Propulsion and levitation lead, Aug 2019–Aug 2020,

[shifthyperloop.com](https://www.shifthyperloop.com)

Voluntary board position and founding member, with the intention of competing in the SpaceX Hyperloop Pod Competition. Led a team performing research and development of a linear induction motor with industrial partners for an Hyperloop Pod prototype.

Vortex NTNU, Trondheim, Norway

Team member, Aug 2018–Aug 2019,

www.vortexntnu.no, [robosub.org](https://www.robosub.org)

Voluntary work. Development of an Autonomous Underwater Vehicle to compete in the international competition RoboSub in San Diego. Experience with ROS and C++.

Studentersamfundet, Trondheim, Norway

Volunteer, Aug 2017–Jun 2018

www.samfundet.no

Executed live, multi-camera concert recording, mixing and broadcasting during Norway's largest cultural festival, UKA. Voluntary work.

TECHNICAL SKILLS

- Proficient in Python and Java
- University projects with OpenGL, C++, MATLAB and Simulink, SQL, Julia, PyTorch, Scikit-learn, OpenCV and Microsoft HoloLens
- Linux, ROS, Git, Blender

Personal interests: Learning Japanese, lead climbing, ski touring