



Eirik Simón Ortega Guttelvik

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PROFILE

Rockets, drones, machine learning and home electronics, alongside a master's in cybersecurity and data communication and a bachelor in economics. I learn by building, and want to bring that into technology or defence.

EDUCATION

Norges teknisk-naturvitenskapelige universitet	Trondheim
<i>Master in Cybersecurity and Data Communication</i>	Aug 2022 – Jun 2027
<i>Bachelor in Economics</i>	Aug 2023 – Jun 2027
University of Cape Town	Cape Town, South Africa
<i>Exchange year - Engineering and Economics</i>	Jan 2026 – Jun 2026
Universidad Técnica Federico Santa María	Valparaíso, Chile
<i>Exchange year - Engineering and Economics, taught and examined in Spanish</i>	Aug 2025 – Dec 2025

WORK EXPERIENCE

mnemonic	Norway
<i>Governance, Risk and Compliance Intern</i>	June 2026 – August 2026
- Translated security and regulatory requirements into practical guidance for how an enterprise client adopts AI. - Evaluated European technology vendors as part of a digital sovereignty assessment.	
Defence Technology Startup	United Kingdom
<i>Engineering Intern</i>	July 2026 – August 2026
Built computer vision components and designed a mechanical test rig for hardware validation.	
Propulse NTNU	Norway
<i>Telemetry Engineer</i>	August 2024 – October 2025
Telemetry engineer on NTNU's student rocket team. Developed a rocket tracker used to follow the rocket during flight, and helped solve technical problems across the project.	
Jotron AS	Norway
<i>Junior Development Engineer - Embedded Machine Learning</i>	June 2025 – August 2025
Worked on machine learning for speech enhancement, improving voice clarity in noisy environments. Used TensorFlow Lite, PyTorch and ExecuTorch for model conversion and deployment to edge devices.	
Norwegian Air Force Flight School	Norway
<i>Student pilot</i>	August 2024 – September 2024
Selected as 1 of 22 people from over 1800 applicants after a five-phase selection process of physical, mental and computer-based testing. Best in class when I left in pursuit of a more technically-oriented career.	
Duvi Pensjon	Norway
<i>Part-time job as a technical problem solver</i>	August 2023 – September 2024
Offered a part-time position after a summer internship. Handled integration and API issues, collaborating with other companies to solve technical problems.	
Norwegian Army	Norway
<i>Artillery ranger</i>	July 2020 – July 2021
Second-in-command of a patrol, responsible for team equipment and for making sure the team met our goals and duties. Rigorous selection where only 9 out of 100+ made it through.	

SELECTED PROJECTS

ML-Driven QoS in Software-Defined Networks <i>Python, Mininet, OpenFlow, scikit-learn</i>	2026
End-to-end SDN pipeline where a Random Forest classifier identifies traffic types and drives priority queues in real time. Reduced video jitter by up to 2000× under congestion.	
Snow Pole Detection <i>PyTorch, object detection</i>	2025
Real-time detection of snow poles for autonomous driving in winter conditions. Trained and tuned an edge-friendly detection model on the NAPLab RGB and LiDAR dataset, achieving the best results in the class.	
Fibre-Optic Access Network Design <i>Python, PuLP, GeoPandas, OSMnx</i>	2025
Software to identify households and optimise placement of fibre-optic components for a real neighbourhood, using ILP optimisation and GIS data.	
Smart blinds <i>Electronics, 3D printing</i>	2022
Motorised window blinds built with an electric motor and 3D-printed parts, controlled via Apple HomeKit and Siri.	
Drone <i>Electronics, soldering</i>	2019
Selected and purchased parts, assembled and soldered the components, and integrated everything with a flight controller.	

EXTRACURRICULARS

Pet Projects - Developer | Volunteer instructor, teaching programming and electronics to teenagers
Seniornett - Leader | Assisting seniors who need help with technology. Responsible for the students participating
NTNUI Tindegruppa - Climbing instructor | [Website](#)