



Ask Hallem-Berg

Master's student in Computer Science
AI specialization · NTNU

CONTACT

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EDUCATION

- ETH Zürich**
Exchange year (MSc), Computer Science
Sep. 2026 – Aug. 2027
- NTNU, Trondheim**
MSc, Computer Science
5-year Engineering Master's program
Aug. 2023 – Jun. 2028 · GPA 4.79/5
- Verdal Upper Secondary School**
Science and technology specialisation
Aug. 2020 – Jun. 2023 · GPA 6.31/6.40

PROFILE

Computer science student at NTNU specializing in artificial intelligence, spending 2026/27 on exchange at ETH Zürich. My work spans deep learning fairly broadly: detection and segmentation models for drones and satellite imagery, generative models for synthesizing training data, and retrieval systems built on top of language models. I also build and run my own products, from trafikkskiltene.no to its successor veivett.no.

EXPERIENCE

- Netlight** Jun. 2026 – Aug. 2026
Summer Internship · Data & AI
Improved shelter detection for SKAI+, the World Food Programme's platform for analysing satellite imagery in humanitarian response. Traced poor generalisation to incomplete annotations and built a semi-automatic labelling pipeline with full coverage of the operating area and roughly ten times as many labels. Adapted YOLO26 with an added P2 head for targets around ten pixels across; the new model found more than twice as many shelters, with higher precision at the default confidence threshold.
Object Detection · Instance Segmentation · Ultralytics · PyTorch · HPC · [read more](#)
- Computas, Oslo** Jun. 2025 – Jul. 2025
Summer Internship
Developed an AI assistant for NRK TV-Aksjonen, Norway's largest fundraising campaign, in a team of three. Built the backend and Azure infrastructure: SharePoint retrieval through Microsoft Graph connectors, hybrid search in Azure AI Search, serverless APIs in Azure Functions, all deployed with Terraform and GitHub Actions. Answers come with sources attached, and an admin interface lets non-technical staff maintain FAQs and prompts.
Azure · RAG · Python · TypeScript · Azure AI Search · Terraform · GitHub Actions · [read more](#)
- Q-Free, Trondheim** Jun. 2024 – Dec. 2024
Machine Learning Engineer Intern
Built a system to synthesize weather conditions into ALPR images: fine-tuned CycleGAN-Turbo for unpaired image translation and built a depth-based fog baseline on monocular depth estimation, with training on Vertex AI and autoscaling inference on Google Kubernetes Engine. Continued part-time through the autumn, building a CI/CD pipeline from training through deployment to inference, so updated models could move into production without manual steps.
CycleGAN · PyTorch · Vertex AI · GKE · Docker · CI/CD · [read more](#)
- Ascend Aerial Robotics Team, NTNU** Sep. 2023 – Sep. 2025
Volunteer · 20+ hrs/week
Deputy Chief Engineer Apr. 2024 – Sep. 2025
Responsible, together with the Chief Engineer, for Ascend's four technical groups, making sure the work of 29 engineers integrated into one drone. Recruited 21 engineers from a pool of over 200 applicants; sat on the board, setting up the technical budget and handling purchasing.
Perception Engineer Sep. 2023 – Sep. 2024
Object detection in the perception group: trained and fine-tuned the drone's detection model on NTNU's HPC cluster, with sliced training through a custom dataloader for targets a few pixels wide. Inference ran on the drone's NVIDIA Jetson Orin.
Team Leadership · System Integration · PyTorch · OpenCV · NVIDIA Jetson · HPC · [read more](#)

PROJECTS

- Veivett** veivett.no
Study tool for the Norwegian theory test across all four licence classes: full syllabus, 400+ explained questions, spaced repetition and realistic mock exams. Currently in beta. [read more](#)
- Trafikkskiltene** trafikkskiltene.no
My first real project, a site for learning the Norwegian traffic signs, built at 15 while preparing for my tractor licence. It still gets steady traffic from search and has earned ad revenue every year since launch. Veivett is its successor. [read more](#)