# GABRIEL FORSBERG

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## EDUCATION

**CHALMERS TECHNICAL UNIVERSITY**                                          Gothenburg, Sweden
Master of Science                                                                            Expected Jun 2026
### Major in Complex Adaptive Systems
Relevant Coursework: Data Analysis, Artificial Intelligence, Algorithms and Data Structures, Autonomous Robots, Stochastic Optimization, Simulation of Complex Systems

**CHALMERS TECHNICAL UNIVERSITY**                                          Gothenburg, Sweden
Bachelor of Engineering                                                                    Aug 2019 – Jun 2024
### Major in Biomedical Engineering
Relevant Coursework: Clinical Studies and Ethics, Medical Image Processing, Neural Engineering, Biomedical Instrumentation & Electronics

## RECENT WORK EXPERIENCE

**STRÖMMA AB**                                                                           Gothenburg, Sweden
Able Seaman                                                                                  Apr 2024 – Aug 2024
- Together with the captain, solely responsible for all ship operations and passenger safety
- Daily interaction with more than 300 paying passengers of varied nationality
- Work included but not limited to: Operation of Ship, Regular Maintenance, Customer Service, Ship Safety and Personnel Safety Education

**STIFTELSEN LÄXHJÄLPEN**                                                          Gothenburg, Sweden
Teacher (Evening Classes)                                                              Mar 2023 – Oct 2024
- Taught a class of ~15 students in the age of 13–16, focusing on fundamental knowledge in core subjects (math, natural sciences, English etc.)
- Enhanced my own foundational knowledge and improved my ability to break down complex topics and relations into their most fundamental levels, making them both easier to digest and better understood

## UNIVERSITY PROJECTS

**AUTOMATIC HEMORRHAGE DETECTION & CLASSIFICATION**                          May 2025
- Developed a novel convolutional neural network sequence model, trained on a large dataset of 5 different types of intracranial hemorrhages, capable of both localization and classification
- Achieved high diagnostic accuracy while providing interpretable heatmaps of regions where a bleed is thought to be present

**KIWI D1 – AN AUTNOMOUS DIFFERENTIALLY STEERED ROBOT**                          April 2025
- Utilized a microservice architecture to develop, simulate, replay and test an autonomous differentially steered robot with code written in both Python and C++
- Only team to complete the final test track in a completely new environment and set a new official lap time (out of 16 teams)

## EXTRACURRICULAR

**PERSONAL WEBSITE**
gabrielforsberg.com
- A portfolio and blog website detailing personal and curricular related projects involving machine learning, CI/CD, microservices, 3d printing and more
- Built from scratch using Payload Headless CMS and Next.js with zero operating cost (excluding domain name)

## ADDITIONAL

**Technical Skills**: Advanced in Python, MATLAB, Mathematica, MS Office; Proficient in Fusion 360, HTML/CSS; Learning C++, JavaScript
**Languages:** Fluent in Swedish, English; Conversational Proficiency in Spanish
**Certifications:** STCW: Basic safety; Crowd Management; IPSP Designated Security duties; Ordinary Seaman
**Other:** Driver's license (B)

References sent on request