Sylvester William Eley

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Summary

DTU engineering student with hands-on experience in machine learning, full-stack development, software engineering and signal processing. Specifically I am studying machine learning, computer vision and perception for autonomous systems and I have done different projects ranging from neuro-steered attention models for hearing aids to self-driving robots. Outside of tech I'm passionate about sports and nature, and I actively invest in my dorm community by managing a run club and yearly half marathon.

Work Experience

Rigshospitalet Jun 2024 - Aug 2025

Maintained the website and intranet, managing content, accessibility, and statistics using SharePoint and SiteImprove.

Tutoring and teaching assistant at DTU Sep 2022 - Present

Tutoring students in mathematics and physics, in both short exam-focused courses and longer-term confidence-building programs. Assistant teacher in DTU course Advanced Engineering Mathematics 2.

Projects

Bachelor's Project - DTU 2026

Applied temporal response functions (TRFs) to model EEG responses to continuous speech for auditory attention decoding (AAD), with direct implications for neuro-steered hearing aids.

madklubber.dk

Developed a full-stack web app for organising food clubs at my student residence, handling scheduling, member coordination, expense tracking and fairness system.

Live ice hockey data app Fall 2025, UBC

Developed a live sports data app in a team of two (2nd place in class). Ingested and parsed JSON match events from the Sportradar API, using scheduled sync jobs to keep game data live, and turned the events into real-time bingo predictions for users. Full-stack ownership in Kotlin and TypeScript with MongoDB, deployed in Docker, using Git for collaboration.

nybrorunclub.dk

Founded a run club at my dorm. Includes arranging a yearly half marathon for members. I had to quickly create a simple webapp enabling the timing of runners by registering their bib-numbers as they run laps. This extended into a miniproject also with features to register for the race, a feature to create blog posts and a feature to send bulk emails.

Education

2026 - 2028 Honours Master's Degree in Autonomous Systems at **DTU**
Fall 2025 Exchange semester at **UBC**
2023 - 2026 Bachelor's Degree in General Engineering - Cyber Systems at **DTU**
2019 - 2022 High school at **Espergærde Gymnasium og HF**

Skills



Software	Git, Docker, AWS, MongoDB, REST
Programming	Python, SQL, TypeScript, JavaScript, C++, Java, Kotlin
ML & Data	PyTorch, Pandas, NumPy, Matplotlib, SciPy, Sklearn, Eelbrain
Robotics	OpenCV, ROS2, Open3d
Languages	Danish, English