John Dahlberg

CV

Profile

Computer vision engineer with seven years of building software and machine learning models for products where errors matter: self-driving trucks, brain radiosurgery and surveillance. From Python prototype to C++ in production.

Employment

2026 - Present **Founder**, *Nordic Gradient AB*.
Computer vision consulting, from feasibility prototype to deployed system. See nordicgradient.com.

2026 - Present **Machine Learning Engineer**, *Saab, Surveillance*.
Computer vision for surveillance applications. Set up **ML pipelines** in AWS for data collection and model training.

2022 - 2026 **Research Engineer**, *Scania, Autonomous*.
Research and development of **computer vision** for perception in self-driving trucks. ML models for object detection and 3D projection, from Python prototype to C++ **in the product**.

2019 - 2022 **Software Engineer**, *Elekta, Neuro*.
Development of the Neuro Treatment Planning System in C++ on Linux for brain radiosurgery. Prototyped in Python and **patented** an ML model for optimized treatment plans.

2017 - 2019 **Internal IT Support**, *Philips, Health Technology*.
Part-time, alongside my master's studies: internal IT support and infrastructure at the Philips office.

2015 - 2016 **Mathematics Instructor**, *KTH Royal Institute of Technology*.
Part-time, leading students in mathematics.

Education

2014 - 2019 **M.Sc, 300 Credits**, *KTH Royal Institute of Technology*.

2017 - 2019 **Master's program in Systems, Control and Robotics 120 Credits**.
Track in Robotics and Autonomous Systems (see sample robotics project).

2019 **Master's Thesis**, *Seavus*.
Research in *Explainable AI* - Visualization of Recurrent Neural Networks for prediction.

2014 - 2017 **Bachelor's degree in Vehicle Engineering 180 Credits**.
Bachelor's Project: Intelligent Traffic Intersection Management Using Motion Planning for Autonomous Vehicles.

Software Experience

Programming	Python, C++
Environments	Linux, AWS, Jupyter Notebook, LaTeX
Frameworks	PyTorch, Keras, OpenCV, Robot Operating System, CUDA
Projects	`https://github.com/johndah`, (see the wildlife detection project)

Languages

Swedish (native), English (fluent), Spanish (working knowledge, B1)

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