MADS CHRISTIANSEN

M.Sc. in Electrical Engineering specialized in Automation and Robot Technology

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PROFESSIONAL PROFILE

I am a dedicated and driven M.Sc. in Electrical Engineering from the Technical University of Denmark who specializes in fields of robotic applications such as automation and control and software development. What drives me professionally is to contribute to current state-of-the-art research in leading technology companies. From my education I bring a strong theoretical and practical background in state-of-the-art control theory, machine learning and advanced image analysis methods and have an open-minded and systematic approach to analytical problem solving and strive to deliver high-quality work. I wish that my competences can benefit a company in areas of automation, control and software development and aid in the innovation of excellent solutions.

EXPERIENCE

Computer Vision Engineer

EIVA A/S

January 2022 – Present Stilling

- In my current position as a Computer Vision Engineer, I work within the Deep Learning/AI group, focusing on the development of autonomous underwater solutions for offshore industries. Our projects aim to enhance the efficiency and reliability of operations beneath the sea by utilizing deep learning models and computer vision techniques.
- We address specific challenges presented by the underwater environment, from variations in lighting and water clarity to the pressures of deep-sea conditions. My work involves creating systems capable of navigating and adapting to a range of subaquatic conditions, aiding in improving the safety and precision of offshore endeavors.

Latex Supporter

Technical University of Denmark

April 2017 – August 2019 Kongens Lyngby

- Delivering support with the typesetting system, LaTeX, for students and employees at the Technical University of Denmark, DTU, including hosting courses during the autumn- and spring semesters.

EDUCATION

M.Sc. in Electrical Engineering

Technical University of Denmark

Feb 2018 – Sept 2021 Kongens Lyngby

- Specialization: Automation and Robot Technology
- Thesis title: Object Detection and Tracking for Feedback Control of Autonomous Mobile Robot (grade 12/A)
- State Estimation, Position-Based Visual Servoing, Machine Learning, Advanced Image Analysis
- Final weighted grade average: 10.1 (GPA: 3.8/4.0)

STRENGTHS

Automation | Control | Robot Technology | Software Development | Machine Learning | Collaboration | Work Ethic

Python	●●●●●
C#	●●●●●
C++/C/Conan	●●●●◐
PLC	●●●●○
MatLab	●●●●●
Latex	●●●●●

LANGUAGES

Danish	●●●●●
English	●●●●●
Scandinavian Languages	●●●◐○

B.Sc. in Electrical Engineering

Technical University of Denmark

Sept 2013 – Feb 2018 Kongens Lyngby

- Thesis title: Vision based control of robot swarm (grade 12/A)

VOLUNTARY WORK

ElNet Council Member

Technical University of Denmark

Jan 2017 – Jan 2018 Kongens Lyngby

- Ensuring that the college student interests are preserved and scheduling of student related events