

Wouter Meijer

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"I am academically passionate about integrating mapping and task planning in robotics and professionally ambitious to deploy robots 'into the wild' at scale."

Summary

Balanced robotics software engineer with 2 years of experience in software design and development. Hands-on experience with developing, testing, and deploying **autonomy solutions** on the Boston Dynamics **Spot robot** platform. During my bachelor's, I worked a business role at a scale-up where I gained experience in marketing, client-facing communications, and **stakeholder management**.

Education

Delft University of Technology - MSc. Cognitive Robotics

2019 - 2022

- MSc. Thesis @ [TNO Intelligent Autonomous Systems group](#): "*Situational Graphs for Task-Oriented Mapping on Mobile Robots*"
- Favorite Courses: *Machine Perception 8.5, Robot (Motion) Planning and Decision Making 8.5, Robot Software Practicals 8.5, Machine Learning for Robotics 9.0, Intelligent Control Systems 9.0, Knowledge Representation & Symbolic Reasoning 9.2.* (1-10)

Delft University of Technology - BSc. Mechanical Engineering

2014 - 2019

- Bachelor Thesis @ Systems & Control: "*Robot Localization Based on Collisions and IMU*"
- Minor in [Electrical](#) & Biomedical Engineering.

Stedelijk Gymnasium Haarlem - VWO NT/NG

2014

Experience

Ceylon Systems - Owner

June 2018 - present, remote

- **TNO - Robotics Software Engineer:** Developed a localization solution for ROS2 Nav2 using anchoring optimization and fiducials, **now the standard benchmark**. Developed a point cloud processing pipeline to correct mobile robot drift based on environmental features, **package published to PyPI**.
- **Kojac - Python Developer:** Used Python, Tkinter, and py2app to create a desktop GUI application to structure email communications for court cases of lawyers, **improving their workflow efficiency**.
- **Sylvania - Web Developer:** Used Bootstrap and jQuery to create an online return-on-investment calculator for retrofitting sustainable LED lighting, **replacing the old system**.
- **Individuals - Tutoring:** Tutored python, mathematics, machine learning, etc. to bachelor and high school students. **100% success rate for their exams.**

TU Delft - Teaching Assistant, Intelligent Control Systems

Jan 2022 - May 2022, Delft

I updated and graded the practical assignments and hosted the weekly Q&A session. Additionally, I orchestrated the students' submissions and paper review tasks of the PhDs, **successfully meeting deadlines**.

Skelex - Business Development

September 2018 - 2020, Rotterdam

I represented Skelex at numerous international events and advised businesses on adopting exoskeleton technology in their workforce. Additionally, I **supervised eight marketing interns while setting up a campaign** to raise exoskeleton awareness in the shipbuilding sector. This campaign led to **successful new acquisitions**.

Mechnificent - Treasurer

March 2016 - Mar 2017, Delft

With a team of six Mechanical Engineering students orchestrate the party's logistics, location, safety, and organization for 1250 students.

Skills

- English
- Coding

Cambridge Advanced English

Python (Spot API, Tensorflow, PIL, Open3D, NetworkX), Git, C++ (OpenCV, pcl), ROS1&2, Docker, Linux, Matlab, JavaScript