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.

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, web development, etc. to bachelor's and master's 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.

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

Skills

- **English**   Cambridge Advanced English
- **Coding**   Python (Spot API, Tensorflow, PIL, Open3D, NetworkX), Git, C++ (OpenCV, pcl), ROS1&2, Docker, Linux, Matlab, JavaScript