

DR. MARVIN STÜDE

Robotics Engineer & Project Lead

📍 Germany

📅 04.04.1992

🌐 resume.marvin-stue.de

🔗 MarvinStuede



EXPERIENCE

Innovation Project Lead

ZF Group

📅 April 2023 – Ongoing

📍 Hannover, Germany

- Leading a project for camera-based surround perception of commercial vehicles
- Technical focus:** Camera-based object detection, 3D-Simulation, Autonomous task control

Research Associate

Institute of Mechatronic Systems

📅 March 2018 – March 2023

📍 Hannover, Germany

- Project and team leader for developing a social service robot for long-term autonomous info-terminal and guiding services. Supervised 27 student theses.
- Technical focus:** SLAM, path planning, task modeling, people perception, Bayesian learning, mechanical and electronics design
- Teaching:** *Robotics I, RobotChallenge, Hackathon for Mobile Robotics*

Internship: Quality Management and Methods

Bosch Rexroth

📅 Oct 2014 – March 2015

📍 Xi'an, China

- Introduced Layered Process Audit for plant-wide production auditing
- Project lead: Quality enhancement of frequency converter production (FMEA, 6-Sigma)
- Established regular English courses outside working hours for the staff

EDUCATION

PhD in Mobile Robotics

Leibniz University Hannover

📅 March 2018 – February 2024

📍 Hannover, Germany

Dissertation: Environment and Task Modeling of Long-Term Autonomous Service Robots

Final grade: *Summa Cum Laude* (Excellent)

Study Abroad

University of Auckland

📅 Feb 2017 – May 2017

📍 Auckland, New Zealand

B.Sc. and M.Sc. in Mechatronics

Leibniz University Hannover

📅 Oct 2011 – Feb 2018

📍 Hannover, Germany

Major: Industrial & Service Robotics

Final grade: 1.2 (*excellent*, equivalent GPA: 3.8. Top 3% of class.)

Master thesis: Autonomous Opening and Traversal of Doors by a Redundant Mobile Manipulator (Grade: 1.0, equivalent to A+)

High school

BBS Cuxhaven

📅 Jul 2008 – Apr 2011

📍 Cuxhaven, Germany

Final grade: 1.4 (equivalent GPA: 3.6. Graduated top of class.)

PUBLICATIONS (SELECTION)

- Non-Parametric Modeling of Spatio-Temporal Human Activity Based on Mobile Robot Observations**
M. Stuede and M. Schappler
IEEE International Conference on Intelligent Robots and Systems (IROS), 2022
- Sobi: An Interactive Social Service Robot for Long-Term Autonomy in Open Environments**
M. Stuede, K. Westermann, M. Schappler, and S. Spindeldreier
10th European Conference on Mobile Robotics (ECMR), 2021
- Map Management Approach for SLAM in Large-Scale Indoor and Outdoor Areas**
SFG Ehlers, M. Stuede, K. Nuelle and T. Ortmaier
IEEE International Conference on Robotics and Automation (ICRA), 2020

SOFTWARE

C++, Python, ROS 1



ROS 2, Java, Solidworks, Inventor, MATLAB, Git, \LaTeX



Docker, Gitlab CI/CD, EAGLE, MongoDB, JavaScript, Unity/C#, OpenCV, PCL, Tensorflow, EN 61131, MS Office



LANGUAGES

German

English

Chinese



ACHIEVEMENTS

Dr. Jürgen Ulderup Award: For outstanding study achievements

VDI Technology Award: Awarded to engineers who have made an outstanding contribution to solving technical problems

Dream NEW Scholarship: For outstanding EU students to study abroad in New Zealand

REFEREES

Prof.-Dr. Ing. Tobias Ortmaier

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