

# PAUL W. LÖDIGE, M. Sc.

Robotics Engineer with a strong academic foundation in Computer Science and Robotics with hands-on experience in research, automation, and competitive engineering teams. Skilled in robotics system design, software development, and motion control, with proven leadership in multidisciplinary projects.

## EDUCATION

Oct. 2021 – Aug. 2024

**M.Sc. Informatics**, Karlsruhe Institute of Technology, Karlsruhe, Germany.

- Master Profile Robotics
- Thesis: "Force-Aware Robotic Manipulation with Movement Primitives"

Oct. 2022 – Jan. 2023

**Exchange Student**, University of Tokyo, Tokyo, Japan.

- Graduate School of Engineering

Oct. 2018 – Aug. 2021

**B.Sc. Computer Engineering**, TH OWL, Lemgo, Germany.

- Dual Study Program with Phoenix Contact

## WORK EXPERIENCE

Mar. 2024 – present

**Research Assistant**, Intuitive Robots Lab @ KIT, Karlsruhe, Germany.

- Design of a mobile robot station
- Framework development for robot control

Sep. 2020 – Aug. 2023

**Dual Student In-House Machine Construction**, Phoenix Contact GmbH & Co. KG, Blomberg, Germany.

Jan. 2019 – Aug. 2020

**Dual Student Competence Center Services**, Phoenix Contact Electronics GmbH, Bad Pyrmont, Germany.

## VOCATIONAL TRAINING

Jul. 2017 – Jan. 2019

**Vocational Training as a Computer Science Expert (Software Development)**, Phoenix Contact Electronics GmbH, Bad Pyrmont, Germany.

- Dual Study Program
- Professional Degree from IHK (Chamber of Commerce and Industry)

## OTHER EXPERIENCES

Apr. 2023 – Aug. 2023

**Autonomous System Support**, KA-Racing e.V., Karlsruhe, Germany.

Dec. 2021 – Aug. 2022

**CFO**, KA-Racing e.V., Karlsruhe, Germany.

Oct. 2021 – Dec. 2021

**Deputy Team Lead Electronics**, KA-Racing e.V., Karlsruhe, Germany.

Feb. 2020 – Aug. 2021

**Head of IT & Software Development**, OWL Racing-Team, Lemgo, Germany.

Nov. 2018 – Jan. 2020

**Software Engineer**, OWL Racing-Team, Lemgo, Germany.

## Contact

Mail

[paul@ploedige.com](mailto:paul@ploedige.com)

## Skills & Qualifications

Languages

**English (Fluent)**

**German (Native)**

**Japanese (Basic)**

Programming Skills

**Python**

**C/C++**

**Docker**

**ROS**

**C#**

**L<sup>A</sup>T<sub>E</sub>X**

**Java**

Certificates

**Vehicle HV Systems Training**

**(DGUV 209-093 2E)**

**Driving License B/BE/T**

## Online Profiles

 [linkedin.com/in/ploedige](https://www.linkedin.com/in/ploedige)

 [ploedige.com](https://ploedige.com)

 [github.com/ploedige](https://github.com/ploedige)