

Leon Greiner

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Education

Technical University of Munich

M.Sc. Robotics, Cognition, Intelligence

Munich, Germany

Oct 2023 – Present

- Relevant Coursework: Machine Learning, Robotics, Computer Vision, and more.

University of California, Berkeley

Visiting Graduate Student

Berkeley, USA

Aug 2024 – Dez 2024

- Coursework: Robotic Locomotion, Embedded Systems, Mathematical Programming
- Semester projects: Designed and built a fully autonomous wheeled quadruped and an autonomous Connect Four playing machine for real-time human competition.

Technical University of Munich

B.Sc. Mechanical Engineering

Munich, Germany

Oct 2019 – Oct 2023

- Passed with merit
- Thesis: “Landing Gear Design for Integration of Fuel Cells into a UAV”; Passed with distinction

Experience

DLR - German Aerospace Center

Oberpfaffenhofen, Germany

Master Thesis Student | Computer Vision

Aug 2025 – Jan 2026

- Writing a Master Thesis titled “Zero-Shot Model-Based Object Perception in Complex Scenes Using CAD Templates”.

Computer Vision Research Intern

Feb 2025 – Jul 2025

- Developed a model-based segmentation pipeline by integrating SAM with a correspondence model.

RoboTUM

Munich, Germany

Senior Robotics Engineer | Humanoid Team

Jul 2025 – Present

- Building the fastest bipedal robot worldwide.

Junior Robotics Engineer | Humanoid Team

May 2025 – Jul 2025

- Performed simulations in NVIDIA Isaac Sim and implementing a Central Pattern Generator (CPG) in JAX to generate rhythmic control signals for a reinforcement learning pipeline.

Silver Atena GmbH

Munich, Germany

Engineer Intern

Apr 2023 – Jun 2023

- Designed a dispenser robot in collaboration with a cross-functional team, significantly reducing manufacturing process time and lowering production costs.
- Conducted tests and inspections in the laboratory, ensuring quality control and improved product efficiency.

Air Torque GmbH

Ettlingen, Germany

CAD Design Intern

Oct 2020 – Jan 2022

- Designed and modeled CAD components of pneumatic actuators and limit switch boxes.
- Created technical drawings via SolidWorks for manufacturing processes and customers.
- Produced creative instructional videos and animations using CAD software for training courses and the company website, simplifying and effectively explaining complex procedures such as driveshaft disassembly.

Manufacture Intern

Sep 2020 – Oct 2020

- Manufactured pneumatic actuators.
- Created technical drawings via SolidWorks for manufacturing processes and customers.

ÖHF GmbH

Malsch, Germany

Manufacture Intern

Mar 2020 – Apr 2020

- Manufacture of hydraulic lifts

Skills & Interests

Technical

- **Programming Languages & Libraries:** Python (PyTorch, NumPy, TensorFlow, OpenCV), C
- **Software & Tools:** MATLAB, Simulink, Isaac Sim, Git, PLM Windchill, SolidWorks, Catia, Inventor, Creo, Windows Office, Linux Ubuntu/oSuse

Certifications & Awards

- English Proficiency Certificate - C1 on the CEFR
- DPG High School award for exceptional achievements in physics

Languages: English (C1), German (Native)

Interests: Weight training, FPV-Flying, Tennis, Mountain biking