



Yannick Burkhardt

- Munich, Germany
- August 25, 1997
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Interests

- Computer vision, machine learning & perception
- Robot control, trajectory planning, manipulation
- Hiking, football, water polo

Skills

- C++, Python, Java
- ROS, DDS, Conan, Git
- Matlab/ Simulink, Maple, CAD, LaTeX, MS Office

Languages

- German: native
- English: *TOEFL iBT* 92%
- Spanish
- Polish

Education

Apr. 2024 – Present

Jul. 2025

Technical University of Munich & ETH Zürich (Mobile Robotics Lab)

PhD on event-based robot perception
International Computer Vision Summer School (ICVSS, University of Catania)

Oct. 2020 – Jul. 2023

Feb. – Jun. 2023

Aug. 2022

Technical University of Munich

M.Sc. Robotics, Cognition, Intelligence (Grade: 1.1)

Technológico de Costa Rica (Exchange)

International Elite Robotics Summer School (University of Southern Denmark)

Oct. 2016 – Feb. 2020

Karlsruhe Institute of Technology

B.Sc. Mechatronics and Information Technology (Grade: 1.6)

Work Experience

Aug. 2023 – Feb. 2024

Agile Robots AG

Robot Software Engineer
Robot control framework implementation

Oct. 2020 – Jan. 2023

Agile Robots AG

Working Student & Master Thesis
Visual servo control for deep-learning based robot grasping, kinematic calibration

Oct. 2019 – May 2020

LEONI Elocab Ltd.

Internship in Kitchener, Canada
Cable construction and testing

Oct. 2018 – Aug. 2019

Research Center for Information Tech.

Research Assistant & Bachelor Thesis
Shared Control for commercial vehicle

Publications

Yannick Burkhardt et al. *SuperEvent: Cross-Modal Learning of Event-based Keypoint Detection for SLAM*. ICCV 2025

Yannick Burkhardt et al. *Multi-fingered Dynamic Grasping for Unknown Objects*. Humanoids 2024

Balint Varga, Arash Shahirpour, Yannick Burkhardt et al. *Validation of Cooperative Shared-Control Concepts for Large Vehicle-Manipulators*. CCTA 2020.

Balint Varga, Yannick Burkhardt et al. *Shared-Control Concepts for Large Vehicle-Manipulators*. ISIE 2020.

Awards

Highlight paper at ICCV 2025 (SuperEvent)

PhD scholarship from the Munich Center for Machine Learning (2024)

M.Sc. passed with high distinction (2023): top 1.5% graduate

5×Deutschlandstipendium (2017 – 2023)