



## Yannick Burkhardt

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### Interests

🔧 Robot control, trajectory planning, manipulation  
🖥 Machine learning & vision  
🏃 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

## Work Experience

- Aug. 2023 – Present** **Agile Robots AG**  
Robot Software Engineer  
Robot control framework and control algorithm 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 with robot arm
- Oct. 2017 – Sep. 2018** **Karlsruhe Institute of Technology**  
Student tutor for Higher Mathematics

## Education

- Oct. 2020 – Aug. 2023** **Technical University Munich**  
M.Sc. Robotics, Cognition, Intelligence (Grade: 1.1)  
Feb. – Jun. 2023 Tecnológico de Costa Rica (Exchange)
- Aug. 2016 – Feb. 2020** **Karlsruhe Institute of Technology**  
B.Sc. Mechatronics and Information Technology (Grade: 1.6)
- Aug. 2008 – Jun. 2016** **Alexander-von-Humboldt-Gymnasium**  
Allgemeine Hochschulreife (Grade: 1.0)

## Publications

Yannick Burkhardt, Qian Feng et al. (2023). *Dynamic Grasping of Unknown Objects with a Multi-Fingered Hand*. In review for: 2024 IEEE International Conference on Robotics and Automation (ICRA).

Balint Varga, Arash Shahirpour, Yannick Burkhardt et al. (2020). *Validation of Cooperative Shared-Control Concepts for Large Vehicle-Manipulators*. 2020 IEEE Conference on Control Technology and Applications (CCTA).

Balint Varga, Yannick Burkhardt et al. (2020). *Shared-Control Concepts for Large Vehicle-Manipulators*. 2020 IEEE 29th International Symposium on Industrial Electronics (ISIE).

## Awards

M.Sc. passed with high distinction (2023): top 1.5% graduate  
5xDeutschlandstipendium (2017 – 2023)