Yannick Burkhardt

80802 Munich, Germany

August 25, 1997

+49 176 42997580

yannick.burkhardt@web.de

yannickBurkhardt

yannickburkhardt.github.io

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 Insitute of Technology**
Student tutor for Higher Mathematics

Education

Oct. 2020 – Jul. 2023 — **Technical University Munich**
M.Sc. Robotics, Cognition, Intelligence (Grade: 1.1)

Feb. – Jun. 2023 — Technológico de Costa Rica (Exchange)

Oct. 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

5×Deutschlandstipendium (2017 – 2023)