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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

Education

Apr. 2024 – Present **Technical University Munich**
PhD candidate in Smart Robotics Lab
Event-based visual perception for robot control

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

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. *Multi-fingered Dynamic Grasping for Unknown Objects*. 2024 IEEE-RAS International Conference on Humanoid Robots.

Balint Varga, Arash Shahirpour, Yannick Burkhardt et al. *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. *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)