



Bachelor or Master Project

„Human-Robot Interaction through Augmented Reality“

In the modern industrial environment, AGVs (autonomous Guided Vehicles) play an important role to support and assist workers. The task in this (Bachelor) master project is to develop and evaluate an Augmented Reality Application to realize the collaboration between the worker and the mobile robot. The user will be able to command and control the robot through the AR application.

Your Tasks:

- Literature Research and State of the Art
- Implementation and validation of an AR-Interface for Human-Robot Collaboration
- Bring your own creative ideas

Our Requirements:

- Programming skills (C#, C++, Python)
- First experience with Augmented Reality Applications , socket programming
- Interested in Industry 4.0 or Cyber-physical Systems
- Motivated, independent way of working
- Advantage: first experience with Unity, Hololens, Object Detection(tracking) , Robotics



Contact:

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The SmartFactoryKL, based at the DFKI in Kaiserslautern, is a world-wide unique manufacturer-independent demonstration and research platform. Here, innovative information and communication technologies and their use in a realistic industrial production environment are tested and developed further.