Universität Stuttgart

Institute for Control Engineering of
Machine Tools and Manufacturing
Units (ISW)

ISW

Assistant Student for Experiments with ROS

We have been working on a dummy industrial environment for robotic experiments. This needs to first be modeled for simulation and then replicated on real robots. The robotic system will be deployed with the Robotic Operating System (ROS), relying mainly on the MoveIt ROS package for tasks such as environment mapping, robot navigation, obstacle avoidance, and robotic arm movements. Given a complex mission, the robot must accomplish it with adequate performance and energy efficiency.

You will work with:

• Deploying and configuring the ROS packages
• Set up simulated environments and real robots
• Run experiments and assist in interpreting, plotting, and presenting the results

Your profile:

• Currently pursuing advanced studies at the University of Stuttgart
• Programming experience in Python and/or C++
• Comfortable in using a version control systems like Git for collaborative development
• Motivate and proactive
• Previous experience with basic robots, with simple sensors and actuators
• Knowledge of basic electronics is an advantage

We offer you:

• Participation in current topics in autonomous robots
• Flexible working hours
• Participation in ISW internal events
• Opportunity to work with real robots

Apply by post or email to:

Jun.-Prof. Dr. rer. nat. habil. Andreas Wortmann
Institute for Control Engineering of
Machine Tools and Manufacturing Units (ISW)
University of Stuttgart

Seidenstr. 36 / Room 5.017
70174 Stuttgart

andreas.wortmann@isw.uni-stuttgart.de