

Bachelor Thesis, Master Thesis, Working Student: Automatic Robot Productivity Supervision and Prediction



Working Student · Informatics, Mechanical Engineering, Production, Robotics · 20h · Munich

The thesis is offered in cooperation with the chair of Robotics, Artificial Intelligence and Real Time Systems, professorship for Cyber Physical Systems of Prof. Dr.-Ing. Matthias Althoff.

YOUR MISSION

You'll be planning, designing, implementing and verifying a system for automatically detecting the state of a robot and robotic system and enabling real-time analysis capabilities. Goal of the analysis is to get an overview of a robot fleet, to automatically detect problematic applications and give suggestions on how to handle them. You will be part of the software development team and work on the forefront of robotics, with your own tasks and responsibilities. Parts of your work may include the following:

- Analysis of industrial robot states and robotic application states.
- Automatically identifying the current states.
- Finding ways of transmitting data and combining data of multiple applications to fleet performance data.
- Implementing an automatic suggestion system based on the performance data.

YOUR PROFILE

- You're studying at TUM with a focus on computer science, mechatronics, production, or electrical engineering.
- You have worked with robotics or automation systems before.
- You know Python really well.
- Ideally, you've come across AWS database systems before.
- You want to gain real world experience along with your studies.
- You love to take responsibility.

Please apply at robco.jobs.personio.de/job/1401894