

HIWI:

Real-Time Data Transmission in Automation Engineering

This project will be conducted **externally at MACCON GmbH & Co. KG (Aschauer Str. 21)** and co-supervised by us and MACCON within the scope of our joint research project.

Context

In the context of our joint research project *Drives 5G*, we develop new methods to operate electrical drives wirelessly, i.e., with wireless power and data supply. Thereby, we specifically focus on solutions designed for construction sites and automation systems. The scope of this work is the wireless data transmission, for which we mainly use EtherCAT and 5G.

Tasks

- Specification of the communication interface
- Design and Implementation of a prototype
- Software Implementation (incl. configuration of required software tools)
- Testing
- Project documentation

Requirements

- Studies in the field of Electrical Engineering, Informatics or similar
- Interest in automation technology and drive systems
- Interest in field bus communication (e.g., EtherCAT)
- Good computer literacy
- Good English skills

Contact

If you are interested in this position, please send your full application (CV, transcript of records, possible start dates) to Andreas Finkenzeller (andreas.finkenzeller@tum.de) and Dr. Ted Hopper (e.hopper@maccon.de).

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