"At Diehl, you are not a small cog in the system. In my role, I have a significant impact on product development and can take responsibility for making decisions that count."





Masterthesis (m/f/d) - non-local and mixed Sensor systems: **Evaluation of correction algorithms**

These are your tasks:

- Based on simulations and measurements of Studies in one of the subjects Physics, a sensor system consisting of many different sensors, which are mounted in a water distribution network you will investigate the properties of the single sensors.
- You will apply the concept of Kalman Filters and similar algorithmic concepts to the data of the sensor system.
- You will evaluate your findings in terms of measurement accuracy and data quality of the respective sensors and sensor system.
- · You will communicate your findings to the team and finally write a thesis about your project.

Who we are looking for:

- Computer Science, Mathtematics or related field.
- · Knowledge in statistical Data analysis, Data reduction and Sensor data fusion is beneficial.
- Knowledge in python programming language incl. typical libraries like pandas, numpy.
- · Understanding of sensor systems an digitalisation of measurement values is beneficial.
- · Basic understanding of numerical optimization algorithms is beneficial.
- · First experience in physical simulation of sensorics or sensor systems is beneficial.

Work location: Nuremberg Job Level: Thesis Working time: 19 hours per week Employment contract: 6 months Division: Diehl Metering Start: 01.10.2025

Note: Applicants (m/f/d) with a severe disability will be given preferential treatment if equally qualified. Should you wish to do so, please indicate your SB status in your application on a voluntary basis.

These are your potential benefits



Good traffic connections

Flexible working hours



Family-owned company





Parking space

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