For our team we are looking for a  

Student Assistant (m/f/d) - Connected Automated Driving

About us
The chair of traffic engineering and control deals – in research and teaching – with methods and technologies for collection, description and spatial-temporal management and control of the traffic condition, both for individual as well as public transport.

Tasks
Within the M Cube project “Testbed for connected and automated traffic” (www.mcube-cluster.de), technologies for connected and automated driving are developed and evaluated in collaboration with various industry partners. Together with a partner, we add vehicle-to-everything (V2X) communication support to an existing research demonstrator.

Therefore, your tasks will include:
- Develop software components to access V2X hardware,
- Develop software components to access V2X information in the stack,
- Support in performing V2X test drives,
- Scientific evaluation of V2X test drives.

Qualifications
Your profile should meet most of the following statements:
- Completed/ currently enrolled Bachelor's degree or a Master’s degree in computer science, electrical engineering or similar,
- A high interest for automated and connected driving,
- Very good programming skills in C++ and Python,
- Experience with software development under Linux,
- Willingness and motivation to work with a hardware demonstrator,
- Experience with state-of-the-art software development processes and tools (such as Git, Bazel, Docker) is a plus,
- Experience with robotic systems and middleware (such as ROS) is a plus,
- Fluent communication skills in English, basic skills in German is a plus,
- You can work self-reliantly and are curious to expand your skill set.

We offer:
- A multifaceted job with flexible working hours (up to 20h/week).
- A salary of €13.40/hour or €18.20/hour depending on your degree.

Application
We look forward to receiving your application documents (CV, short motivation letter and transcript of records) via e-mail to: martin.margreiter@tum.de and philipp.stueger@tum.de.

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