



# Student Assistant Thesis

## Development and maintenance of the Cyber-Physical Mobility Lab

### Your Task

- Maintain the Cyber-Physical Mobility Lab (CPM Lab) in terms of both hardware and software.
- Assist in the transition to Robot Operating System 2 (ROS 2) and ensure the lab's stability and reliability during this transition.
- Develop and modify exercises used in our „Control and Perception in Networked and Autonomous Vehicles“ lecture to align with the lab's new API.

### Your Profile

- Proficiency in C/C++ or similar programming languages.
- Demonstrated reliability, motivation, and the ability to work independently.
- Preferred but not mandatory: Experience with Ubuntu and Raspberry Pi OS.

### Our Offer (if you apply for a student assistant position, not a thesis)

- Immediate start date, with an initial 3-month duration, and the possibility and desire for extension.
- Regular weekly working hours range from 7 to 9 hours.
- Candidates with a bachelor's degree are welcome but it is not mandatory.

### Contact



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