

# Student Assistant (HIWI) – Autonomous Driving Software Testing



Workload  
~10 hours/week



Level  
Bachelor/Master



Languages  
C++, Python



Simulator  
CARLA



Work Experience  
Encouraged

## | About the Project

We are looking for a motivated Student Assistant (m/f/d) to support an ongoing research and development project in autonomous driving. The project is conducted in close collaboration with industry partner Astemo. The position offers hands-on experience in software testing, simulation-based validation, and automotive software development.

### Your Responsibilities

- Support the project team in the testing and validation of autonomous driving software
- Assist in the preparation, execution and evaluation of test scenarios in simulation environments
- Contribute to the development of small scripts and tools in C++ and Python for automation and analysis tasks
- Contribute to CI/CD pipelines and test infrastructure
- Analyze test results and identify anomalies

### Required Qualifications

- Currently enrolled in a late Bachelor's (~120ECTS) or Master's program in Computer Science or a closely related field
- Strong C++ and/or Python skills
- Understanding of software testing fundamentals
- Independent working style and good communication skills

### Nice to Have

- Prior work experience or internships in software or system engineering
- Knowledge of regression testing and dataflow analysis
- Experience with CARLA or other robotics environments

### Real-world impact

Deep practical exposure to autonomous driving software and industry-grade tooling

### Flexibility

Flexible working hours compatible with your study schedule

### Growth potential

Opportunity to extend into a thesis or full-time position.

## | What We Offer

Interested? Send your CV and a short motivation letter to [\[stefan.winter@sosy.ifi.lmu.de\]](mailto:stefan.winter@sosy.ifi.lmu.de)