



RESEARCH INTERNSHIP IN AUTONOMOUS DRIVING SIMULATOR INTEGRATION

fortiss is the research institute of the Free State of Bavaria for the development of software-intensive systems with headquarters in Munich. The scientists at the institute cooperate in research, development and transfer projects with universities and technology companies in Bavaria, Germany and Europe. The focus is on research into state-of-the-art methods, techniques and tools for the development of software and AI-based technologies for dependable, secure cyber-physical systems such as the Internet of Things (IoT). fortiss is organized in the legal form of a non-profit limited liability company. Shareholders are the Free State of Bavaria (majority shareholder) and the Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. www.fortiss.org

We are looking for a Master student who would like to complete their research internship in the field of autonomous driving where we aim at integrating Waymo's [waymax](#) simulator with Baidu [Apollo](#) autonomous driving platform. This internship offers an exciting opportunity to work on challenging problems at the intersection of dataset, scenario generation and motion planning.

Your tasks:

- Explore integration strategies between waymax and Baidu Apollo.
- Design and implementation of middleware or adapters to facilitate data exchange and functionality sharing between the two systems.
- Document the integration process and create tutorials and guides for community use.

Your profile:

- Master student currently enrolled in Electrical and Computer Engineering or a related field.
- Practical experience in programming languages such as Python, C++.
- Familiarity with autonomous driving systems and simulation software.
- Excellent communication skills in English, both written and verbal.
- Prior experience with JAX or other hardware accelerator libraries is a plus.

Our offer:

- An international and dynamic work environment with highly qualified colleagues.
- Increased experience with the latest developments in autonomous driving.
- Flexible working conditions, e.g., home office, flexible working hours.
- Possibility to pursue your master's thesis on further autonomous driving topics.

Please submit your application with a detailed CV and a current transcript.

Contact for details or direct application: Xiangzhong Liu, xliu@fortiss.org

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