

"FORSCHUNGSPRAXIS" IN COLLABORATIVE AUTONOMOUS DRIVING (V2X)

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 Al-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 want to complete her/his "Forschungspraxis" in our autonomous driving (AD) project (https://www.fortiss.org/en/research/projects/detail/kosi) where we aim at conducting collaborative behavior planning via explicit communication among automated vehicles.

Your tasks:

- Support the implementation activities planned within the project including:
 - o Develop an interface for the V2X device to communicate with the AD middleware, integrate the interface and visualize the received messages in AD system (https://github.com/fortiss/apollo).
 - o Continuous development of our AD software stack.

Your profile:

- Master student currently enrolled in Electrical and Computer Engineering or a related field.
- Practical experience in programming languages such as C/C++, Python.
- Familiar with Git and middlewares (e.g., Cyber RT or ROS) for autonomous systems.
- Interest and previous knowledge in V2V or V2X are welcomed.
- Excellent communication skills in English.

Our offer:

- An international and dynamic work environment with highly qualified colleagues.
- Increased experience with the real-world applications in the field of autonomous driving.
- Close collaborations with industrial and academic leaders in the automotive domain.
- Flexible working conditions, e.g., home office, flexible working hours.
- Possibility to continue with working student and master thesis in the field of autonomous driving.

Please submit your application with a short introduction, a detailed CV and a current transcript of records.

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