



## “FORSCHUNGSPRAXIS” IN THE DOMAIN OF AUTONOMOUS DRIVING (PERCEPTION)

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](http://www.fortiss.org)

We are looking for a Master student who would like to complete her/his “Forschungspraxis” in one of our autonomous driving projects, where we aim at integrating state-of-the-art perception modules into autonomous vehicle research platforms.

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### Your tasks:

- Support the implementation activities planned within the project including
  - Raw sensor data acquisition, preprocessing, and visualization and
  - Integration of deep learning-based perception modules (e.g., object detector) into a research platform (Ubuntu-based).

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### Your profile:

- Master student currently enrolled in Electrical and Computer Engineering.
- Practical experience in programming languages such as Python, C++.
- Familiar with middleware (e.g., ROS, Cyber RT) for autonomous systems.
- Nice to have deep learning related implementations with PyTorch.
- Excellent communication skills in English.

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### Our offer:

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

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

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