



RESEARCH INTERNSHIP IN V2X INTEGRATION VIA GRPC FRAMEWORK

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We are looking for a Master student who want to complete her/his research internship in collective autonomous driving where we aim at conducting collaborative behavior planning via V2X communication among automated vehicles. The V2X module/sensor needs firstly be integrated with Baidu [Apollo](#).

Your tasks:

- Develop a gRPC interface for the V2X device to communicate with the Car-PC on fortiss research vehicle.
- Integrate the interface and visualize the received messages in HMI of the autonomous driving stack Apollo.
- Fuse V2X-received information to the sensor fusion pipeline in Apollo.

Your profile:

- Master student enrolled in TUM faculty Electrical and Computer Engineering.
- Practical experience in programming languages such as C/C++ or Python.
- Familiar with middleware (e.g., Cyber RT or ROS) for autonomous systems is a plus.
- Interest in V2X and previous knowledge in gRPC & Protobuf are welcomed.
- Sound 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 master thesis in the field of autonomous driving.

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

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