

Studentische Hilfskraft (SHK):

Research assistant on V2X communication for cooperative automated driving

Cooperative automated driving applications require reliable and low-latency exchange of periodic control information among vehicles in proximity. Providing the required communication performance in vehicular environments is challenging, especially due to their large number of nodes with highly dynamic mobility patterns. The objective of our research is to enhance the performance of the candidate V2X technologies: IEEE 802.11p, LTE-V2X, to match the reliability requirements of CAD applications. To achieve this objective we need your support!

Your tasks are:

- Configure and carry out simulations in our V2X simulation framework (ns-3)
- Maintain and extend the simulation framework (C++, Python)
- Evaluate the results and develop strategies to improve the performance accordingly (science)

What do we expect:

- Basic experience with **Linux systems** and **C++ programming** is needed
- Knowledge on wireless communication systems and networks is a plus

What do we offer:

- Flexible hours and fair payment
- Close collaboration with researchers and the option to co-author in scientific publications
- A long term perspective at the chair including topics for Studien-/Diploma-/Master thesis

If you are interested drop me an email (richard.jacob@tu-dresden.de) or text me on LinkedIn (Richard Jacob) with your CV and latest grade sheet. A written motivation is not required, we will discuss this later on personally. **In case you are rather looking for a final thesis, we can also offer you a related topic.**

VODAFONE CHAIR

