



Bachelor-/Semester-/Master-Thesis

EDGAR Driver's License: Feature Development in a real world Autonomous Driving Stack

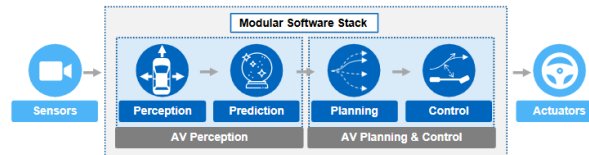
Join FTM to develop autonomous
driving software for real world
applications.

Background

IAA Mobility 2025 will feature the **IAA Driver's Licence**, an autonomous driving challenge that tests the capabilities of self-driving vehicles. Our research vehicle **EDGAR** will take part in this competition.

The challenge tests autonomous driving performance in different environments, including highways and urban areas. EDGAR will officially be evaluated on whether the software can handle complex traffic scenarios while ensuring safety and rule compliance.

In our interdisciplinary team you will be developing perception, prediction, planning or control software to enable EDGAR to navigate through real-world scenarios.



Language

English/German

Your Role

- Choose an area of preference for your research topic in the modular software stack.
- Perform literature research and real world test drives to determine current limitations of autonomous vehicle software.
- Development & implementation: Develop and implement state-of-the-art software with a focus on real-world applicability.
- Test your software on EDGAR and in real-world scenarios.

What you should bring along?

- Strong interest & motivation for autonomous driving
- Initiative & independent way of working
- Strong C++/Python programming skills

If you are interested, please send me a grade sheet with your CV!