

Driving Simulator

Target Group:

- Praxisprojekt + BA • Master Mechatronics Project
- Pro2 • Master-Thesis

Project description:

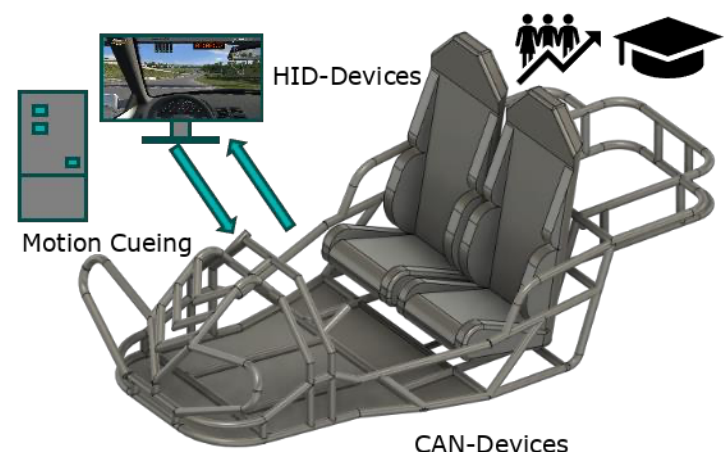
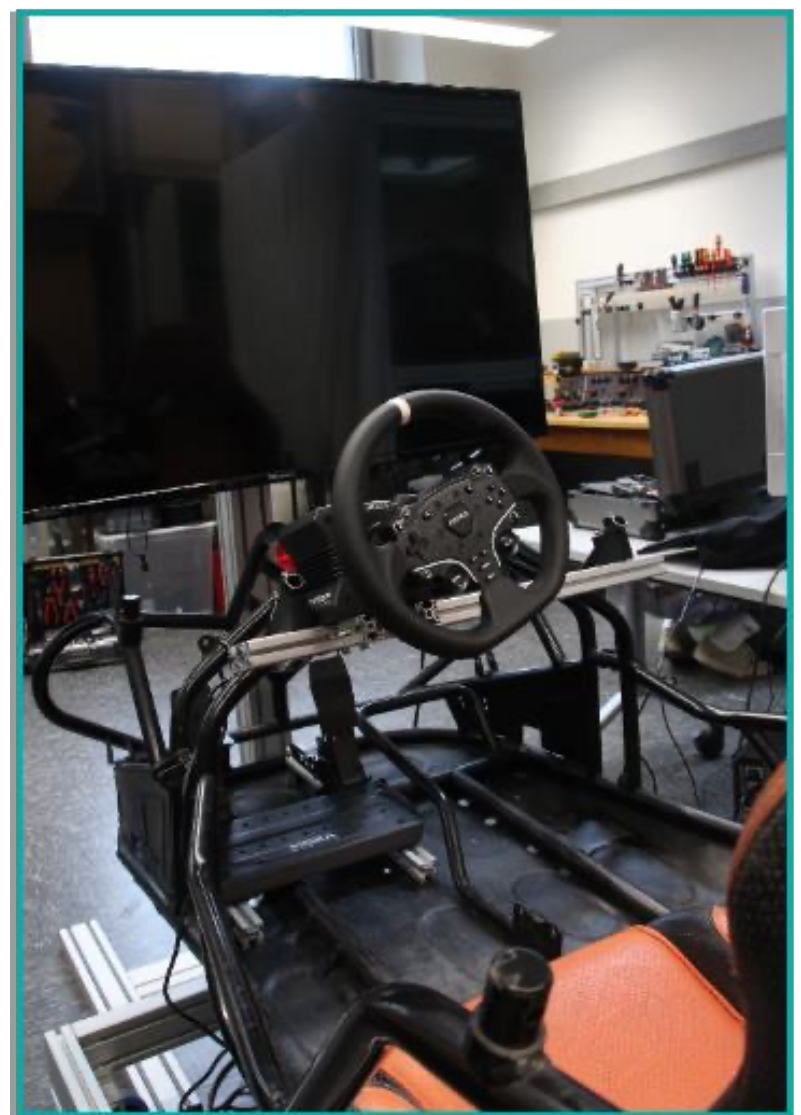
A beach buggy was converted into a driving simulator at the Institute of Applied Automation and Mechatronics. By reading out the telemetry data of the racing simulation, the gateway was developed in the form of a master's thesis, the design was implemented and a functional racing simulator was realised.

What you can expect:

We are aiming to develop a practical digitalisation strategy. This involves the design and implementation of a CAN board network that can be used to control add-on parts such as multifunction levers, brake lights, headlights and other components. This project offers you the unique opportunity to immerse yourself in the world of the CAN protocol, which is essential for the automotive industry. Not only will you learn about the software and hardware aspects of the CAN protocol, but you will also master the intricacies of careful system architecture in terms of scalability and reliability.

Important:

Willingness to learn new things and hands on! In the simulator at the Nürburgring or on the A4 motorway towards Aachen in a driving school car or Audi R8...system tests could be more boring! In future, the driving simulator will serve as a test environment for various research approaches to the gamification of autonomous driving systems and offer a risk-free experimental field. Several leading German car manufacturers are already pursuing similar approaches - you too can be part of this innovative field of research!



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