

Thesis opportunity

Bachelor Thesis

Human-Machine Interaction:
HMI Competence development

Theme of the thesis

Oncoming automotive technology trends significantly affect the interaction between the driver and the vehicle, demanding natural and intuitive HMI systems for safe and convenient interaction. Developing such HMI is an interdisciplinary work, involving not only engineers, designers, and psychologists but also users themselves. Being so, it is a challenge to have branch-specific knowledge available for all other areas.

In the scope of this thesis, an automotive HMI handbook is envisioned as a foundation for establishing methods and methodologies for the development of automotive HMI.

Tasks

- Identification and analysis of existing guidelines, legislation, and standards regarding automotive HMI
- Documentation of methods and theories regarding HMI development
- Conception of a handbook to guide the development of competence in HMI

Requirements

- Registered student at RWTH, in courses related to Automotive Engineering
- Insights into future topics oncoming the automotive industry
- High level of reliability, commitment, initiative, and independence
- Excellent reading and writing skills in English and German

Department

Vehicle Concepts

Contact



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Date of entry

With immediate effect

Prior knowledge

Automotive Engineering;
Insights into future topics oncoming the automotive industry; Development methods

Application

Please apply by e-mail and attach curriculum vitae, as well as a transcript of grades