Interdisciplinary Project

International student projects globalDrive – Novel Integration Concept for Autonomous Vehicles

Description

General Information

In the winter term 2018/2019 the Institute of Automotive Technology offers once again the possibility for students to work on international projects. In cooperation with international partners, the students write their thesis on exciting topics in the field of mobility.

Teams consisting of 3-4 students located at FTM work on trend-setting topics with relevance for the automotive industry, each together with a team at a foreign partner university. An industry partner provides onsite technical support for the teams.

The kick-off of the project occurs at the foreign partner university. Students and tutors meet and get to know the country and life abroad. The teams have a first opportunity to find ideas all together. At the end of the project, a multi-week stay of the whole team in Munich for building up the final prototype and subsequently presenting the results of all teams concludes the work.
Project Description

Future autonomous vehicles need to communicate to other road users, pedestrians and cyclists. The communication avoids misunderstandings and ensures the best possible traffic flow. For this, an interaction concept has to be developed. The concept will address an intuitively interaction between the autonomous vehicle and its surroundings. Visual and acoustic signals could play a major role as external key components. In order to show the concept hands on, the student team will build a prototype and make use of its predefined budget.

Goals

- Working in an international and interdisciplinary Team
- Promotion of global thinking and multicultural collaboration
- Stay abroad during the Project
- Contact with Industrial Partners
- Improvement of Social Competence (Soft Skills for Engineers)

To apply for a thesis/ an IDP, please fill out the Application Form and send it no later than 10.08.2018 along with a transcript of records to globaldrive@ftm.mw.tum.de.