



# International Summer University 2019: Embedded Mobile Systems

May 19<sup>th</sup> – June 01<sup>st</sup>, 2019 in Wolfenbüttel. Germany

Ostfalia University of Applied Sciences in Wolfenbüttel, Germany, **invites you** to the International Summer University (ISU 2019). Meet German and international students, study Embedded Mobile Systems, visit Germany and have fun.

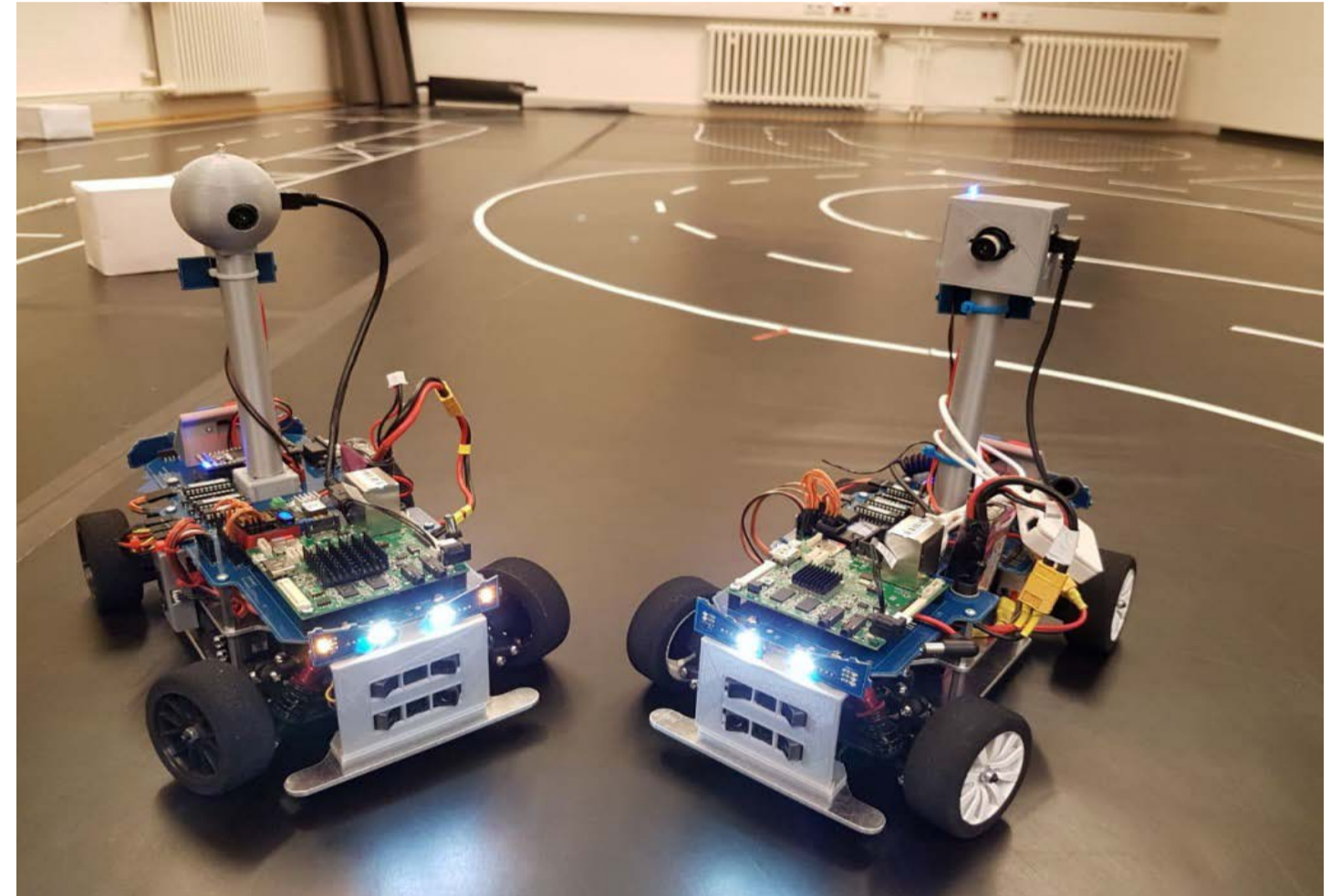
## CULTURE AND LANGUAGE

Visit Germany and get an insight into German history, culture and language. The region Braunschweig/Wolfenbuettel will lead you back to the Middle Ages. In Berlin, Germany's capital, you will come in touch with the former border line between East and West.

### Berlin, capital of Germany

City tour, Reichstag - Parliament Building, Chancellery, and former line of the Iron Curtain

- Wolfsburg:** Volkswagen Factory Tour and Autostadt Town
- Wolfenbüttel:** Walk and Duke August Library
- Braunschweig:** Town walk, Birth place of Carl-Friedrich Gauss
- Bremerhaven:** German Emigration Center



## AUTONOMOUS DRIVING & ETHICS

In this course, you will learn about how self-driving cars work and you will take a crack at your very first autonomous vehicle project - finding lane lines on the road!

**Basics of computer-aided image processing.**  
(Prof. Quevedo, UWP).

During this course the participants will be taught the basic functionalities of the programming language python. Based on the application of computer-aided image processing, the participants gain in-depth knowledge in dealing with image information and its evaluation. This basic knowledge serves as a link to the lecture "Introduction to autonomous driving & ethics".

**Introduction to autonomous driving & ethics.**  
(Prof.Kreyssig, Ostfalia).

During the lab sessions, participants can apply their acquired knowledge in practice and design their own autonomous vehicle. The lecture will teach disciplines such as a fusion of sensor data, localization, path planning, control, and system integration.

**Course fees:** 450 €, including accommodation, breakfast, lunch, excursions - Ostfalia students free.

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