

At the Institute for Autonomous Systems Technology, Department of Aerospace Engineering, University of the Bundeswehr Munich, we are offering a position as a

Research Assistant / PhD Student
Topic: Sensor Calibration
full-time, civilian, salaried according to TvöD 13.

We have been working in the field of autonomous driving for over 30 years and were pioneers in the visual guidance of autonomous road vehicles with our 4D approach. Using our current research platforms (see photos below), we successfully participated in various international competitions (Urban Challenge 2007, European Land Robot Trials). The driving force of our success is the commitment and team spirit of about 15 PhD Students.

Our research vehicles (MuCAR-3 and MuCAR-4) are equipped with a variety of sensors, including cameras, LiDAR, radar and high-precision INS. Accurate calibration of these sensors is a prerequisite for further algorithms, e.g., for obstacle avoidance and route planning. As part of a long-term project, methods for calibrating multiple sensors, preferably online, are to be developed.

For this exciting topic, we are looking for you to reinforce our young team.

Prerequisites for employment:

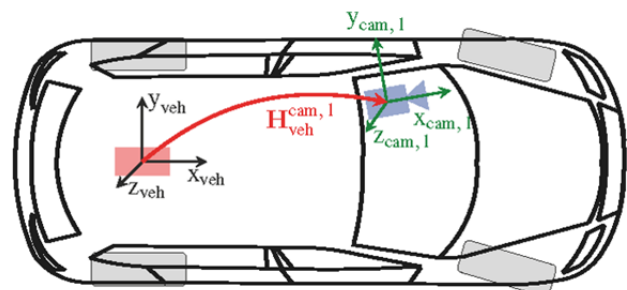
- Above-average academic degree in the field of
 - computer science, e.g., with a focus on robotics, AI or computer vision
 - electric engineering, e.g., with a focus on robotics, mechatronics or control engineering
 - mechanical engineering, e.g., with a focus on robotics, mechatronics or control engineering
 - or in a comparable field of study
- Knowledge or interest in at least one of the following areas
 - 3D data processing with, e.g., LiDAR, Kinect or other RGB-D
 - Image processing
 - Machine learning
- Programming skills are required (C or C++)
- Experience with ROS, OpenCV or PCL is beneficial
- Enthusiasm for engineering and experimental work on real vehicles
- Willingness to participate in teaching

Suitable candidates will have the opportunity to obtain a PhD as part of their work. Applicants who already have a doctorate cannot be considered.

Please send your complete application including a CV (in a single PDF file) to:

Univ.-Prof. Dr.-Ing. Hans-Joachim Wünsche
Institut für Technik Autonomer Systeme
Universität der Bundeswehr München
D-85577 Neubiberg, Germany
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Further information is available at www.unibw.de/tas and www.youtube.com/user/unibwbtas



The University of the Bundeswehr Munich offers trimester-based intense degree programs in small groups, in which (also civilian) students can complete a state-approved Master's within four years. According to Humboldt's ideal, it is not only a teaching but also a researching university, whose professors, as at other German universities, are free to choose their research topics. As a campus university with very good financial and technical equipment, excellent sports facilities as well as its own daycare center and kindergarten, it offers optimal prerequisites for efficient research.

The University of the Bundeswehr Munich aims to increase the ratio of female scientists. Women are therefore explicitly invited to apply. Disabled applicants with the same level of qualification will be given special consideration.