Student Assistant (HiWi)/Internship/Master Thesis Project in Control Algorithms for Compliant Actuators

from April 2019 or as soon as possible thereafter

We are developing compliant robot actuators and are looking for talented students who are pursuing a Master of Science degree in electrical, control or mechanical engineering to support our research as student assistants (HiWi), interns or by doing their Master thesis in our group. Tasks in this project include:

- Development of control algorithms for compliant actuators
- Identification of mechanical and controller properties
- Hard- and software integration (Linux, embedded, C/C++, Python, ROS)

The position will allow the student to gain hands-on experience with controller design for intelligent systems, as well as be exposed to ongoing research. The concrete position and tasks are subject to discussion with interested candidates. Earliest start date is April 2019.

Embodied Vision Group
The project will be carried out at the Max Planck Institute for Intelligent Systems (MPI-IS) located in Tübingen within the Embodied Vision Group headed by Dr. Joerg Stueckler. The group investigates fundamentals of embodied intelligent agents such as robots that learn to perceive and act within their environment. Further information on the group can be found at https://ev.is.mpg.de

Prerequisites
High motivation, excellent practical and theoretical knowledge in control or electrical engineering, a solid background in mathematics and robotics, and solid software engineering skills (C/C++, python) for microcontrollers and x86 platforms are prerequisites. Previous research experience in control or robotics is a plus.

How to apply
Applications should be sent in a single pdf (max. 10MB) per email and include a CV, a short motivation letter (why are you interested in this position/research?), current transcripts of BSc/MSc studies, and optionally other documentation helpful to evaluate your background.

Contact Details: Dr. Joerg Stueckler | joerg.stueckler@tuebingen.mpg.de
MPI for Intelligent Systems, Max-Planck-Ring 4, 72076 Tübingen, Germany.
+49 (0) 7071-601 385 | http://is.mpg.de/person/jstueckler