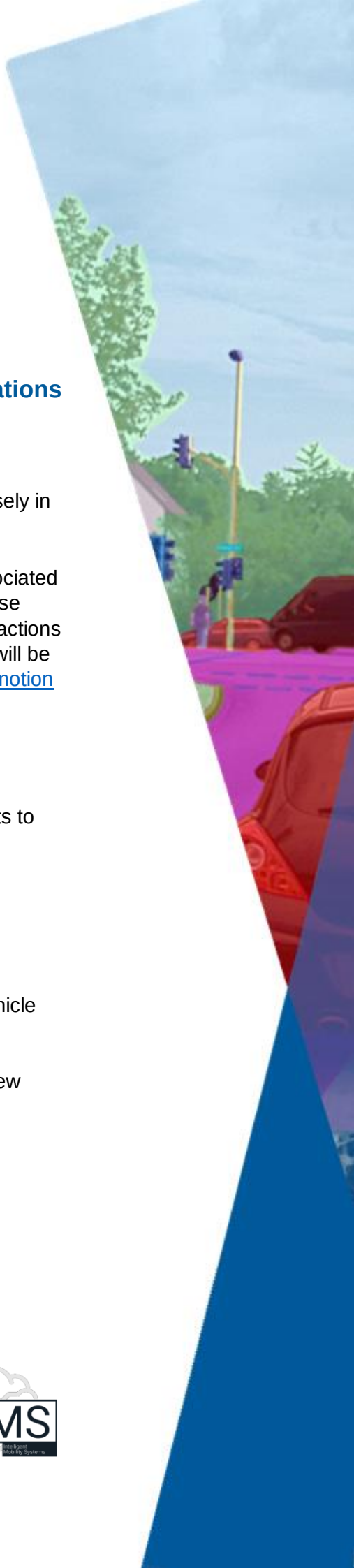
Technische Hochschule Ingolstadt

AImotion Bavaria



Student assistant

Design and deployment of a robot to perform computationally intensive autonomous driving applications

Job description:

Competition in the field of autonomous driving has increased immensely in recent years. Likewise, the challenges of an autonomous vehicle are becoming clearer. Robots are often used to test and apply new technologies and to evaluate e. g. deep neural networks usually associated with autonomous driving with low operating costs. In this context, these robots are equipped with the necessary sensors and can imitate the actions of real vehicles. Within the scope of my research group, a TurtleBot will be set up, which is used for future test applications as well as for the AImotion challenge.

Your tasks:

- You upgrade the TurtleBot with new hardware
- You handle the required software of the hardware components to make them usable for test applications
- You contribute to the improvement of the TurtleBot
- You genereate and test challenging tasks within the AirSim Simulator environment

Job requirements:

- You study computer science, artificial intelligence, flight and vehicle informatics, business informatics or related courses of study
- Basic knowledge and commands of Linux
- You are interested in working with robots as well as installing new hardware components

Starting date: Up until now

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