



Student Assistant Job

Design and deployment of an autonomous driving demonstration using a TurtleBot

Job description:

The Almotion Institute is frequently taking part at public fairs and plans to show a demonstration of autonomous driving applications. Your taks is to design and develop this demonstration and apply it to a TurtleBot robot. The robot should be able to detect lanes and traffic signs, percept it's environment and to drive safely within the demo environment. Special focus is given to the artificial intelligence methods, especially computer vision.



Your tasks:

- > You design a nice demo case for the TurtleBot
- > You handle the required software and hardware of the Turtlebot
- > You implement computer vision models to solve specific perception tasks
- > You genereate and test autonomous driving functions

Job requirements:

- > You study artificial intelligence, computer science, flight and vehicle informatics, or related courses of study
- While others go to parties, you prefer staying at home annotating a lot of image material
- Sood knowledge in Machine Learning and Deep Learning, preferably in Computer Vision
- > Basic knowledge and commands of Linux
- You are interested in working with robots as well with ROS

Starting date: 1th of January, maybe earlier

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