

OBJECT RECOGNITION AND RANGING WITH RGB-DEPTH CAMERA

The aim of the project is to implement traffic sign recognition and develop methods to determine the distance and angle from camera to traffic sign during runtime using a RGB-D camera¹.

Development is to be done in the Robot Operating System (**ROS**²) environment. Participants decide wheather to use the **C++** or **Python** programming language to solve the task. Ground truth for testing provided by GPS coordinates.

Contact: rasmus.clasen@aptiv.com



Traffic sign to be recognized.

About **APTIV**

Global company with focus on the automotive industry with 145 000+ employees in 45 countries. Gothenburg Tech Center has 250+ engineers working with Active Safety (AS), User Experience (UX) and Connectivity and Security. We work towards major automotive brands and mainly develop RADAR solutions.



APTIV Trainee platform. The Zbee. Methods developed during the project will be tested on this platform.

1. <https://www.intelrealsense.com/depth-camera-d415/>
2. <https://www.ros.org/> *ROS Melodic, Ubuntu 18.04 system recommended

2020-10-15

• **APTIV** •