Software and mechanical design for Lidar testing equipment

Project Type: Student Project

Duration: 3 months

Location: Institut für Produktentwicklung und Gerätebau (Gebäude 8143)

An der Universität 1, 30823 Garbsen

Contact: Dr. Max Sundermeier

t: +49 151 14045149

e: max.sundermeier@scramblux.com

URL: www.scramblux.com

SCRAMBLUX is a German Startup company. We want to deliver key technology for Advanced Driver Assistance System (ADAS) and Autonomous Driving markets.
Our patented solutions allows for testing of LiDARs in a new type of instrument, which saves the customer a lot of costs.
LiDAR is one of the most important sensors for automated driving. A LiDAR is a laser sensor, which can produce a 3D (point cloud) image of whatever is in front of it. This is very important for AI and Automated Driving. It allows AI to make better and faster decision than only with a Camera or a Radar.
To advance our technology and deliver excellent solutions to our customers, we are looking for ambitious Master students, to participate in our product development.

Project Description

Participate in the development of the SX-L, a cutting-edge LiDAR testing instrument. You will take ownership of the mechanical assembly, focusing on CAD optimization, assembly, and validation of mechanical performance, including planarity and vibration tests. Additionally, you will work on software development, covering both backend and frontend aspects, as well as UX/UI design, testing, and release. The project also involves thorough testing and qualification of the instrument to ensure it meets all performance standards.

Skill Requirements

You should have excellent knowledge of software development and mechatronical engineering. You should feel comfortable with hands-on work on complex systems.

The project will be conducted at IPeG in Garbsen and jointly supervised with an IPeG employee.