

Student Assignment – Field of View modelling

Stoneridge | Orlaco is a high-tech organization playing Champions League on international level. With our revolutionary innovations and high-end technology we extend the view of drivers, operators and captains worldwide. Our cameras contribute to a safe environment for millions of people. Would you like to make the difference, together with 250+ colleagues? Join us as a student for your BSC or MSC thesis in Mathematics.

Stoneridge | Orlaco makes cameras for many different vehicle types. These cameras are mounted on imaginable positions and enable the driver to monitor different areas (Field of View) around the vehicle.

During development it is imperative to know what the Field of View of the camera will be. A lot of factors play a role in this Field of View. For example: the mounting position, tolerances, lens and sensor specifications, etc.

Stoneridge | Orlaco would like to develop a model of this Field of View based on certain input parameters. The output of this model should give a decisive answer if the system requirements are going to be met, as well as a visual representation of the vehicle in combination with the Field of View.



The assignment is meant for a technical university student in (Applied) Mathematics and is meant for a period of 6-9 months.

The assignment will consist of a complete V-model cycle, including:

- Requirements phase
- Literature study
- Design, simulation and programming of a model (e.g. using Python)
- Verification of the requirements

The deliverables of the project are:

- Report including all of the above
- Working model of the Field of View simulation

Interested? Please contact Orlaco HRM at 0342-404555 or HRM@orlaco.com

