Interdisciplinary Project (IDP)

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LiDAR Sensor Fusion - Image Processing

Background:
Blickfeld is a Munich-based startup company founded in 2016 with the vision to provide autonomous systems the eyes to see the world: We develop revolutionary scanning LiDAR systems and detection software for environment perception. Our unique solution enables countless scenarios like autonomous transportation, mapping, robotics, and smart and safe cities.
In close collaboration with the institute for measurement systems and sensor technology (MST) at the Technische Universität München we constantly offer Interdisciplinary Projects (IDP) with different fields of activities.

Your Role:
Our LiDAR Sensor is already one of the best in the world and produces great three-dimensional data. Imagine what would be possible if we merge these data with, e.g., camera data. This sensor fusion takes place on the NVIDIA DRIVE platform. Help us to fuse these data and enable all kinds of new applications!

Tasks:
- Get acquainted with the NVIDIA DRIVE platform
- Put a color camera together with the NVIDIA DRIVE platform into operation
- Apply different image signal processing algorithms to prepare the camera data for LiDAR data fusion
- Embed state-of-the-art algorithms on the NVIDIA DRIVE platform

Skills:
- You are currently studying software engineer or electrical engineering (or similar)
- You have relevant programming skills in C/C++
- You have experience with CUDA, OpenCL or OpenGL
- You have experience with Linux
- You have experience/interest with image signal processing (demosaicing, tone mapping, color balancing, …)
- You have experience/interest with relevant camera hardware interfaces, e.g., MIPI CS12
- You have very good communication skills in English

Team:
You will be working in a very dedicated and highly motivated team of experts from the field of optical sensors, robotic engineering, and software engineering. Be part of that team and help to shape the mobility of the future!

Details:
If you want to join our team, please send a short letter of motivation, your current CV with your performance record (in English or German) to career@blickfeld.com.