Real-time application with high-speed camera — Automation

Interdisciplinary Project

Motivation:
At the Gear Research Centre we are conducting widespread tests in the field of drive technology. Amongst other things we evaluate gear flank changes and damage in service with the interest of live monitoring for predictive maintenance.

Your task:
The goal of this IDP is the development of a real-time application. You will work on the synchronization and data acquisition of various sensor channels including a high-speed camera for gear flank images. Therefore, you evaluate the different sensor interfaces, develop a concept for synchronization and communication and implement a custom-made application.

Your profile:
- Interested in real-time applications and measurement technology
- Coding Skills (e.g. Python, Labview)
- Highly motivated and responsible
- Fluent in English or German