

## Why should you apply

The variety in work is truly unique. You'll get to work on anything from PCB design to PC software, FPGA designs, and embedded solutions; **focus on what you enjoy most!**

There is great support so you'll never be lost with what you're doing. From my personal experience, my project manager excelled at assigning me just about the right complexity of challenging but doable tasks.

**Engineers are in charge.** The internal processes are created by engineers for engineers, resulting in minimal organisational overhead. Meetings are mostly spontaneous and informal.

Start working

Second technical interview

Get an interview

Send off application

## Skills used and developed

- ▶ Fast learning
- ▶ Critical thinking
- ▶ Software development in C and C++
- ▶ Xilinx FPGA
- ▶ Communication
- ▶ Time management
- ▶ Self-organisation

## Relevant modules

The relevant modules will depend significantly on the details of the project.

However, I found the following list particularly useful for my project, which was largely **focused around FPGA and embedded development:**

- ▶ Computer Architecture I and II
- ▶ Advanced Computer Architecture
- ▶ Digital Electronics
- ▶ Software Engineering
- ▶ Compilers
- ▶ Embedded systems





# The Company



CSM is an engineering company innovating in the field of mobile high-speed automotive measurement applications.

Forming part of the renowned German 'Mittelstand', the backbone of the country's economic success, they make the devices that allow companies like Volkswagen, Daimler & Co. to develop and test their world-class vehicles.



## Company Culture

### Welcoming

Not only was I welcomed warmly, but the positive attitude persisted throughout the placement. You can be sure that someone will cheer you up, even on a bad day.

### Communicative

People will often just pop by the office instead of picking up the phone or writing an email.

### International

You'll get to work with a team of engineers from all over Europe, *with a uniquely German touch*. So don't worry, You'll fit right in! There is an office in the US too.

### Individual

Everyone is unique, and that's reflected in the way they work. Some of the senior engineers have been with the company for more than 30 years!

### Openminded

My co-workers were always eager to show me their work and were more than open to questions, especially those going past the current task's scope. Moreover, my suggestions were listened to with a sincere attitude, being treated as a full team member

## How your work fits in

You'll be working on something that matters, developing flagship products expected to go directly into production.

You'll contribute to a significant part of the development process, giving You a better understanding of how the development cycle looks in the industry.

For example, I worked on both firmware (low-level device software) and FPGA designs for their new high-speed high-voltage portable measurement module. The work started with altering the FPGA CPU design on which the firmware code could run. I then developed the firmware based on a similar existing product. This was followed by extensive testing and validation of the device accuracy and frequency behaviour across an extended temperature range, leading to continued design alterations in an agile manner.