



INTERNSHIP

Embedded Software Engineering

Problem Description

Electrical drive systems design is one of our core competences. Our new drive controller's generation, which is still under development, is based on the Xilinx Zynq Ultrascale+ SoC (System-on-Chip).

The goal of this internship is to implement a command line interface (CLI) and a diagnostic interface between SoC and PC, which are connected via UDP.

Your Tasks

- Design and implementation of an interactive shell (CLI) for an embedded ARM system
- Analysis, design and implementation of a custom protocol on top of UDP for an interactive shell

Your Profile

- Bachelor/Master student in computer science / physics / electrical / mechatronic engineering
- Good knowledge and experience in C programming
- Experience in microcontroller programming
- Knowledge of C++, network protocols (UDP), Bare Metal environments with ARM CPUs, GIT and continuous integration is a plus
- Independent, structured, and solution-oriented

Contact

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