

Open Thesis / Project: PCB Design For SoC Module

Motivation & Summary

To perform research-related measurements and experiments, we need a new hardware platform from time to time that provides the desired new functionalities. For our currently planned measurements we would like to build a modular measurement platform which can accommodate different SoC modules. Some devices we thought of include microcontrollers from the Infineon Tricore family and Xilinx (Artix-7 series), GOWIN and Cologne FPGAs. Your task is to design the schematic and the PCB for such a module according to a given specification keeping electromagnetic compatibility (EMC) in mind.

Recommended Prior Knowledge

- Electronics
- PCB design with an ECAD software (preferably Altium or KiCad)

Thesis Type

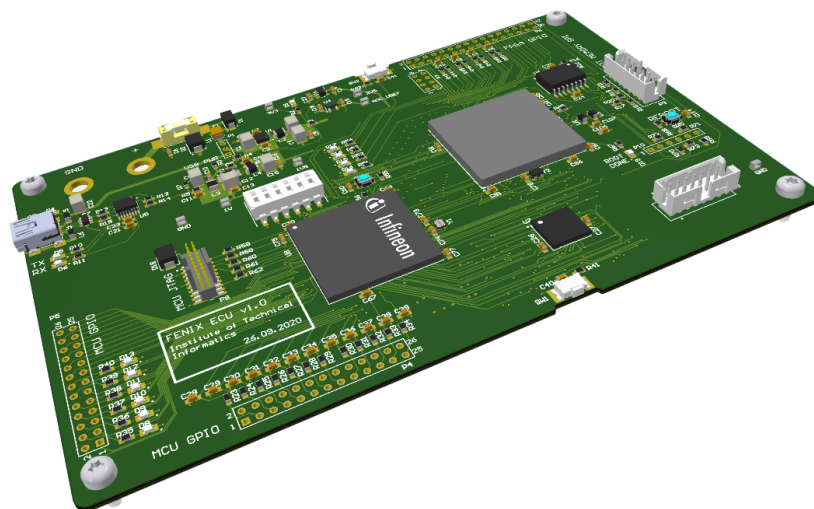
- Bachelor's Thesis
- Master's Project

Student Target Groups

- Information and Computer Engineering (ICE)
- Electrical Engineering (EE)

Goals & Tasks

- Drawing the schematic for the SoC module
- Creating a PCB layout that takes EMC into account



Contact & Information

Kristóf Kanics (kristof.kanics@tugraz.at)

Tobias Scheipel (tobias.scheipel@tugraz.at)

