

Interdisciplinary Project, Bachelor's Thesis, Master's Thesis, Ingenieurspraxis, Forschungspraxis

PCB design based on Embedded TPU and Linux-based SoM

In this project, we aim to design a multi-layer PCB integrating embedded TPU with an ARM processor. After the electronic development, we will capture low-latency RGB data from a camera in sync with an inertial measurement unit(IMU) and use the TPU unit for AI processing. The first step of the project is to modify the provided embedded SoM and the embedded TPU board to test the communication with the TPU module. And afterward, finalize the PCB design and develop the board.

Prerequisites

Good PCB design skills in KiCAD.

Basic understanding of embedded systems.

Knowledge about ARM processors.

Contact

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Advisors

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