

The Mentor Catapult team is looking for interns to develop a framework and initial hardware to seed an open-source hardware initiative using HLS.

The internship will be approximately six months in Munich, Germany and they are flexible on the start date, which could be as soon as possible. Compensation will be discussed with the hiring manager.

Task: Develop hardware-ready algorithms for 5G communication. There seems to be little open-source code available for 5G development. So, this project will focus first on developing algorithms and C++ code suitable for hardware and then synthesizing this code with Catapult. Depending on the length of the internship, the intern may also be involved in synthesizing the hardware into a Veloce emulator and testing the code in a larger context. Deliverables include blocks related to array manipulation, error correction and filtering, and a paper describing the process, challenges and results of building the blocks.