

Linux Kernel Developer

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Group: BE-CO

Starting Date: as soon as possible

Description of the Project

The HT (Hardware and Timing) section of the BE-CO (Beams Controls) group at CERN develops, maintains and extends a large codebase consisting of

- firmware, mostly VHDL code
- Linux kernel device drivers (C code)
- low-level libraries and ancillary software (C code, Python code)

This codebase drives most of the control, data acquisition and timing devices around the entire CERN accelerator complex.

We are looking for an engineer to collaborate in the development of Linux kernel device drivers and low-level software interfacing to the electronics of the accelerator control system.

The required competences are

- Solid experience in Linux OS system programming.
- Proven expertise in operating system kernel programming, and the Linux kernel in particular.
- Proven expertise in projects applying the above to embedded or SoC-based platforms
- Experience collaborating with digital design teams and knowledge of the particular requirements of the field

The required qualifications are

- BSc degree or higher in Software Engineering or equivalent.