

Senior Debug Engineer

Cognovo is a company formed with the vision of changing the cellular and wireless industries through the creation of a new Software Defined Modem Platform targeted at mobile handsets. This flexible platform is built around Cognovo's new Vector Signal Processing engine which, together with its associated vectorising compiler and suite of software tools, enable our licensed customers to create high performance multimode chipset solutions for LTE and beyond.

Our development activities in Leuven are focused upon the creation of the vector signal processor and its associated compiler. We are currently expanding our development teams and are seeking to recruit a number of experienced engineers into our Leuven lab.

Responsibility

The Senior Debug Engineer operates in a team developing and maintaining the Cognovo Software Development Kit (SDK). This SDK consists of a C/C++ compiler targeting VLIW architectures, schedulers, VLIW datapath creation tool, linker, instruction set simulator, debugger, profiler, and IDE.

- Taking an active role in standalone debug development: analysing and resolving any problems found
- Taking an active role in developing a debug solution for the system level.

Qualifications

- Masters Degree in Electrical Engineering or Computer Science.

Work Experience

- This role is suitable for someone with minimum 4 years of relevant professional experience.
- Experience of debugging complex software applications.
- Proven experience in object oriented software design, coding and validation

Skills and Knowledge

Essential

- Excellent knowledge of the ANSI-C and C++ programming language.
- Basic knowledge of compiler technologies.
- Experience with Elf and Dwarf generation
- Experience with gdb
- Good written and oral communications skills in English.
- Understanding of DSP processor architectures

Highly Desirable

- Expert in the ins and outs of the open source community
- Experience with VLIW architectures
- Familiarity with EDA-tool development in general
- Ability to present progress and development requirements to senior management and external audiences
- Interest in/experience with mobile communication applications