

Communications Software 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 Cambridge are focused upon the creation of a multimode software framework and system tools on the Cognovo VSP Reference Architecture, facilitating rapid integration of physical layer task libraries and multimode Protocol Stacks. We are currently expanding our development teams and are seeking to recruit a number of experienced engineers into our Cambridge lab.

Responsibility

- Detailed design and implementation of Layer 1 protocol entities defined by 3gpp and other technical specifications, targeting the Cognovo VSP Reference Architecture
- Development of test tools and scripts for unit testing and system level testing of protocol entities including physical layer task libraries
- Taking an active role in system-level integration: analysing and resolving any problems found

Qualifications

- Good university degree in Electronics or Communications Engineering, Computing, Physics, Maths or related technical subject or equivalent experience.

Work Experience

- This role is suitable for someone of first or higher degree calibre with solid experience in the communication or embedded application software industry
- Experience of developing communication protocols in 3GPP standards, particularly around Layer 1
- Proven experience in software design, coding and validation

Skills and Knowledge

Essential

- Embedded C and C++ programming (object oriented design)
- Understanding of 2G, 3G and LTE multi-mode communications systems
- Real-time Software Engineering principles
- Understanding of mobile communications hardware environments and constraints
- Familiarity with software development tools (IDE compilers, debuggers, target trace)
- Knowledge of Software Engineering methodologies (Specification, Design, Coding, Test)

Highly Desirable

- Ability to present progress and development requirements to senior management and external audiences
- Interest in computing and communications technologies

Personal Qualities

- Self motivated and able to make progress with minimal supervision
- Ability to take on and enhance existing engineering code
- Ability to analyse in depth
- Methodical problem solver
- Finisher / Completer
- Ability to work within a team environment
- Able to prioritise and work within tight time scales in order to meet deadlines
- Willingness to travel in UK and other countries as necessary
- Good oral and written communication skills
- Good people skills
- Confident and enthusiastic
- Ability to multi-task