

Software Engineer

Job description

Reporting to: Software Team Lead

Department: Engineering

Purpose of the role

To develop high quality software which meets our business needs, using current development processes such as Agile or Waterfall.

Specific responsibilities

Include:

- Developing quality code in a timely manner
- Identifying ways in which processes can be improved
- Documenting and testing your work
- Recording activity on the Jira system
- Reviewing the work of other team members
- Collaborating across the business to achieve company goals
- Occasionally acting as a Product Owner, Scrum Master or any other position within an Agile development
- Deputising for the Software Team Lead as and when required
- Such other duties as the Company may from time to time reasonably require.

Experience/Knowledge

Essential

To be eligible for this role, you must have experience in:

- Software development using GCC and C++ 11/14 at an application level (4 years minimum)
- Working with and developing embedded systems on a Linux platform
- Writing reusable code in a modular structure within a shared source tree environment
- Using QT and Boost
- Debian Linux, or Ubuntu other Linux embedded platforms
- Using and understanding the output of static code analysis tools such as PCLint
- Unit, module and regression testing
- Working in an Agile environment, ideally within a Scrum
- Atlassian Jira or equivalent bug/issue tracking systems
- Documenting design processes

- Multithread systems.

Desirable (not essential):

The ideal candidate will have experience in/knowledge of:

- System design for video applications (e.g. H.264, MJPEG)
- The development of sensor systems/products
- Working with and developing systems using communications protocols. (Ethernet, RS485, RS232, TCP-IP, etc.)
- Developing software to Safety Integrity Level (SIL) 1 and 2
- The whole product lifecycle (concept generation, concept demonstration, development, production and in-service support)
- The Motor Industry Software Reliability Association (MISRA)
- Felxlint and SciTools Understand
- Various design approaches (OO, Waterfall, Agile)
- Test-driven development
- Subversion configuration management tool.

Skill attributes

The ideal candidate will hold the following attributes:

- Analytical and systematic
- Customer and result-focused
- Desire to investigate and utilise new technologies and methods
- Ability to adapt skills in a dynamic environment
- Team player, able and willing to support others
- Ability to work on single-person projects and tasks
- Excellent inter-personal skills with the ability to communicate at all levels within the organisation and externally
- Willingness to travel internationally (occasional trips may be required).

Qualifications and memberships

Degree qualified in an appropriate discipline or extensive, relevant and demonstrable experience.

Location

Gateshead.

Salary

Disclosed on application.