

## Graduate/Junior Electronics System Engineer

### Job description

#### Purpose of the role

To assist in and lead on the creation of entire systems based on Intel architectures and ARM architectures for safety critical systems, including schematic capture, pcb layout, electronics debugging, type testing, productionising and delivering.

#### Specific responsibilities

Include:

- Completing assigned development tasks in a timely fashion, whilst ensuring high quality results
- Identifying and implementing process improvements in order to maximise efficiency.

#### Required skills and experience

##### Essential

You must have a willingness to learn about electronics design, integration and test including:

- Analogue electronics
- Digital electronics
- Multi-chip communications profiles (USB, Ethernet, RS485, TCP-IP)
- Power supplies
- Digital video/audio.

##### Desirable (not essential)

A good candidate will be able to demonstrate experience / understanding in the majority of the following:

- Microprocessor embedded system design
- Monitor/display design
- The full product life cycle
- Embedded C
- Linux experience
- Compliance testing (EMC & environmental)
- Use of CAD systems (preferably CADstar) for schematic capture and PCB layout
- Design methods, tools, and techniques and supporting development software within an ISO 9001 organisation.

#### Experience/Knowledge

A strong candidate will be able to demonstrate experience/competency in the majority of the following:

- Report/document writing
- Practical project work
- Communication networking
- Manipulation of databases and Microsoft products
- Analysing and extrapolating customer and product specifications within allocated project work
- Providing analysis of engineering data and issues
- Providing and receiving complex, sensitive or contentious information to/from individuals with a range of backgrounds and experience
- Presentation skills
- Reading mechanical and electrical drawings.

### Skill attributes

The ideal candidate will hold the following attributes:

- Analytical and systematic individual
- Customer and result-focused
- Enthusiasm and keenness to learn
- 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.

### Location

Gateshead, some travel expected.

### Salary

Disclosed on application.