

Experienced Embedded Software Engineer

Smart Fibres is a small, fast growing, Technology Company pre-eminent in the field of fibre-optic sensing, specialising in Fibre Bragg Grating systems. Application for Smart Fibres products has already been found in many markets including Oil & Gas industry, Aerospace, Offshore Engineering, Marine and Wind Power. The Company already has a strong international customer base spanning these markets and now wishes to further expand its activities in key fields.

We are currently looking for an experience embedded software engineer who will support the company growth by strengthening our Software team, especially towards the delivery of our new products.

Primary Responsibilities:

- Developing embedded software in the C programming language for the ARM based SBCs / SOMs in our range of fibre optic FBG interrogators, with an initial focus on embedded webserver development.
- Detailed design, writing, testing, debugging, documentation and ongoing support of embedded software.
- Guide the direction, design, architecture and technology used for a new generation of interface software for our products.
- Detailed design, writing, testing, debugging and documentation of PC application software for customised application software for bespoke customer projects and software for driving in-house test equipment.

Essential Requirements:

- 3 or more years writing embedded C and embedded Linux.
- Experience of embedded Linux device drivers and webserver development.
- Experience of working within a recognised structured design process.
- Degree or equivalent qualification in an Engineering or Science discipline.
- Highly numerate, computer literate.
- Good interpersonal skills, effective team player.
- Fluent English speaker and already resident in the UK.

Desirable Characteristics:

Knowledgeable of / experience with:

- Open embedded / Yocto embedded build system.
- Developing PC based applications interfaces in LabVIEW or any web design language (HTML, CSS, JavaScript, etc.)
- PCI express.
- IP network stack.
- Industrial Field buses, e.g. CANbus, Modbus, Profibus.
- FPGA / VHDL development.
- Electronic design.
- Software design for Aerospace certification.
- Optics or photonics.
- Flexible to travel to customer locations, occasionally international.

The Ideal Candidate:

The ideal candidate will have at least 3 years' experience developing embedded C for a Linux operating system using a structured design process; be comfortable working both independently or as part of a small team and be looking to progress to a Senior Engineer level over the next few years.