Electronics Design Engineer

Smart Fibres is a growing and dynamic technology Company pre-eminent in the field of optical fibre sensing. Using a mix of technologies we develop products and systems, which give clients critical information about equipment in inaccessible places and often in extreme conditions. Applications for our products have been found in many markets including Oil & Gas, Wind Power, Marine and Aerospace.

Our projects range from the simple supply of catalogue products, to the development and supply of complete mechanical, optical and electronic systems to customer specifications.

We are looking to recruit an experienced Electronics Design Engineer with skills in high speed analogue and digital design to join our Engineering team

The Role

Suitable candidates will already be resident in the UK and have at least 5 years' experience in electronic engineering with a proven track record in high speed (~1 GHz) circuit design and will be expected to become the company's design authority in this discipline.

Principal responsibilities:

- Design, document, test and debug of high speed analogue circuits.
- Design, document, test and debug of digital circuits.
- Design circuits in accordance with relevant regulations, in particular EMC.
- Schematic capture of such circuits, generation of parts lists and manufacturing documentation.
- Liaising with key suppliers for the manufacturing of such circuits.

Secondary responsibilities:

- Writing test plans and production test schedules.
- Maintaining the hardware designs of legacy products and dealing with any obsolescence issues that arise.

Essential skills and attributes:

- Qualified to degree level or equivalent in electronics engineering or related discipline.
- Hardware design and schematic capture using CAD tools, preferably Altium Designer.
- Extensive knowledge of amplifier circuits, DAC, ADC, power converters and feedback control.
- Interfacing hardware with FPGA devices.
- PCB layout design incorporating good EMC practice.
- Good interpersonal skills and an effective team player.
- Good reporting skills.
- Good attention to detail.
- Able to work to deadlines.
- Fluent English speaker.

Advantageous skills and attributes:

- Experience of working with optoelectronics.
- Experience of working to a recognised design life cycle methodology.
- VHDL development on Xilinx and Altera FPGAs.
- Signal processing.
- Embedded software development in C/C++.
- Familiarity with embedded Linux.
- LabView interface development.

For the right candidate a challenging role within an exciting and rewarding environment awaits, with opportunities for career advancement within the Company.

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