

ELECTRONICS DESIGN ENGINEER (Graduate)

Interfaces:

Reporting line:	Electronics and Firmware Engineering Manager
Direct reports:	None
Interfaces:	Technology Team Electronics, Software, Mechanical, Production and Operations Teams
Location:	Norwich

Job Brief:

The position is within the Technology Team based in Norwich developing wellbore inspection tools for the Oil and Gas industry. You will be working closely with engineers from a range of disciplines with a variety of skills and experience. EV's key technology revolves around video capture and image processing in extreme environmental conditions, including temperatures up to 175C. The role will allow you, as the engineer, the freedom, but also the responsibility, to take ownership of current and future product designs. You will participate in decision-making process from the concept to completion of the design and your input will be important to the success of future developments. The Technology Team is casual but fast paced environment where two days are rarely the same. As a small team many of the engineers are multiskilled and the ability to expand your skill set, with appropriate training, will be important for this role.

Keywords: Analogue circuit design, Schematic capture, Filter design, Operational amplifiers, Transistor circuit design, Power supply design, PCB layout, Schematic Capture, EMI/EMC design, Digital circuit design, Microcontrollers, Microprocessors, FPGA

Role and Responsibilities:

- Design and develop of electronic systems for EV's current and future well bore inspection tools
- Electronics design from schematic capture and PCB layout to test planning and implementation
- Developing component qualification processes for extreme environments
- Support and maintenance existing product designs
- Continually improving EVs design methodology and development processes
- Support production team as required to identify system faults
- Provide diagnostic support to identify faults on production PCB's
- Ensure compliance with company's HSE policy and actively promote safety within the work environment
- Embedded development for microcontrollers in sensor control systems -desirable

Essential Skills required:

Minimum:

2.1 Degree in Electronic Engineering or similar

- Analogue circuit design
- Analog Signal Processing design
- Structured test implementation
- Proficiency in component level fault finding
- Motivated, quality-focused engineer with excellent team working skills
- Good English communication skills, oral and written

Desirable Skills:

- Multilayer PCB design with high-speed mixed signals
- Embedded development for microcontrollers
- Experience designing for extreme environments (high temperature, shock and vibration)
- Flex-Rigid PCB design
- Switching and Linear power supply design
- High voltage circuit design
- Altium CAD design
- High temperature electronics design
- Assembler
- Precision Soldering
- MATLAB

Package:

- 25k-35k (dependant on qualification and experience)
- Subsidised Private healthcare
- Salary sacrifice pension scheme
- Further education support
- 25 days holiday, plus public & additional day for long service
- Company supported fund raising
- Relocation assistance as appropriate