Embedded Software Engineer

We are looking for an exceptionally talented Embedded Software Engineer working on the development of analyser systems for the chemical and petrochemical industry

The ideal candidate for this role will have significant commercial experience of embedded 'C' programming in resource constrained systems. Experience of programming Microchip PIC devices, preferably using the CCS-PICC compiler is essential. Knowledge of the following peripherals is essential: I2C, SPI, PWM, UART, ADC / DAC, CAN bus and MOD-bus. Knowledge of other fieldbus protocols would be advantageous as would a working knowledge of the HART protocol used in modern sensors and transducers. Software developed in this role will run on highly bespoke hardware, developed in house, so a working knowledge of electronics, sufficient to interact with our hardware engineers would be advantageous.

Our systems are used in various automated process analytical instruments to control and read various actuators and sensors via a CAN-bus interface. Knowledge of this type of product, such as may have been gained in the automotive industry would be highly desirable.

A knowledge of techniques to interface embedded systems to PC based GUIs would also be an advantage.

An understanding of modern Distributed Control Systems, used in the oil and gas industry would be advantageous but is not essential

You will be performing embedded software development across the full product lifecycle on low volume products that frequently need to be tailored to customer specific applications

What you need:

- Excellent degree (2:1 at undergraduate, Masters or PHD) in computer science, electronic engineering or other relevant subject
- Embedded software development experience in C.
- Experience of embedded 'C' programming for Microchip PIC devices
- Knowledge of interrupt handling and common hardware peripherals (I2C, SPI, PWM, UART, EUSART, ADC / DAC.
- Knowledge of CAN-bus, MOD-bus and other fieldbus protocols.
- Knowledge of HART interfaces for sensors and transducers.
- Working knowledge of Microchip PIC/dsPIC based microcontrollers (Mainly PIC18)
- Ability to quickly understand customer requirements and translate this into working code
- Ability to work with hardware engineers to develop hardware. Knowledge of electronics is advantageous.

Location: Market Lavington, Wiltshire

Remuneration: £30-35K pa Dependent on Experience / Company Pension Scheme