

Position: Embedded Software Engineer

This is an outstanding opportunity to progress your career in a dynamic and growing product design consultancy. It is a great time to join the team as the company has recently transitioned into employee ownership and is at the point of shaping itself for continued success as the multi-disciplinary design consultancy for the future needs of its clients.

We are seeking an Embedded Software Engineer who can strengthen our electronics capability. You will hold an embedded software engineering position within i4, as a member of a growing team of electronics hardware and software engineers to complement our mechanical engineering and product design expertise.

You will be located in our bright and open studio based 20 minutes south of Edinburgh's centre in a stunning rural surroundings with views of the Pentland Hills. As a member of the i4 team you will be offered a competitive package that includes a share of company dividends through the employee trust. We recognise the value to you and the company of maintaining a strong work life balance which we foster through flexible working arrangements (co-designed by the team itself). As part of the package we also offer continual training and development and the Cycle to Work Scheme.

About You

You are an embedded software developer with a background in electronics product development. You are a highly motivated individual who is quick to learn and able to manage working on multiple projects with limited supervision. You are able to speak with clients and non-technical stakeholders to understand their requirements and explain technical concepts. You document your designs to a high level of quality. Experience in iOS or Android App development, or experience in the development of medical products or products for a similar regulated environment, will be a bonus.

Key Responsibilities:

The remit for the role will be to:

- Deliver software for interdisciplinary projects involving electronics, software and mechanics.
- Work with clients and our project managers to define detailed software and electronics product requirements.
- Work with clients and our project managers to scope, define, implement and test software for electronics products.
- Integrate product software around digital systems, sensors and interconnects
- Implement embedded software for prototypes / test circuits and products.
- Review the work delivered to ensure it meets functional and quality requirements.
- Support full-lifecycle product development.

It is expected that the role will develop as the Electronics team at i4 evolves and the successful applicant should expect to play a significant part in developing both their own role and the nature of the team.

Qualifications/requirements:

Essential Technical Skills / Experience

1. Degree level qualification in Electronics, Software Engineering, Computer Science or equivalent.
2. 3+ years of industry experience
3. Expertise in embedded software system design
4. Good skills in Embedded C and/or C++.
5. Experience with microcontrollers e.g. ARM, MSP430, PIC etc.
6. Working knowledge of operating systems (RTOS / Linux / Windows).
7. Good understanding of Software Lifecycles and development methodologies
8. Highly competent at MS Office (Excel, Word, PowerPoint).

Desired Technical Skills

1. Experience of other programming languages (e.g. C#, Python, Swift, Java).
2. Experience with Embedded Systems / Single Board Computers / Modules.
3. Familiarity with software design documentation approaches such as UML.
4. Wireless connectivity (for example Bluetooth / BLE).
5. Serial communications (for example USB, RS232, SPI, I2C or 1-Wire).
6. Familiarity with analogue & digital sensors and interfacing to acquisition electronics.
7. Data acquisition and analysis techniques.

This is a superb opportunity to join a forward thinking and successful SME business. In return you can expect a highly competitive package in a challenging and supportive culture and the opportunity to grow your career with a company that is set to expand rapidly.

Email jobs@i4pd.co.uk quoting job reference '**Embedded Software Engineer (ESE02)**' and include the following:

- Your CV.
- A covering letter briefly describing the contribution your skills & experience would bring to the team.