



Embedded Software Engineer

i4 Product Design



Position: **Embedded Software Engineer**

About i4PD

i4PD is an employee-owned product design and development consultancy. Our company is an established brand with an excellent reputation for achieving a competitive edge for small and large businesses alike by bringing new or improved products to market.

The company employs experienced and creative designers and engineers who operate out of i4PD's studio on the South side of Edinburgh. The team works collaboratively with our clients to augment their internal capabilities, supporting them to add functionality, reduce cost, increase visual appeal, enhance usability, and keep pace with technological advancements. Our clients include household names and those on their way to becoming leading consumer electronics and medical device brands.

About the Role

We are seeking an Embedded Software Engineer who can strengthen our electronics and software capability. You will hold an embedded software engineering position within i4PD, as a member of a growing team of electronics hardware and software engineers to complement our mechanical engineering and product design expertise.

About You

You are an embedded software developer with a background in electronics and software 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 Zephyr, FreeRTOS, iOS or Android App development, or experience in the development of medical products or products for a similar regulated environment, will be a bonus.

Your Background:

- Degree level qualification in Electronics, Software Engineering, Computer Science or equivalent
- Able to demonstrate 3 years' worth of relevant industry experience (excluding studies)
- Expertise in embedded software system design
- Good skills in Embedded C and/or C++
- Experience with microcontrollers e.g. ARM, MSP430, PIC etc
- Working knowledge of operating systems (RTOS / Linux / Windows)
- Strong reviewing rigour
- Testing / Debugging / Troubleshooting of designs
- Good understanding of Software Lifecycles and development methodologies



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Your Role:

The remit for this fixed term 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 Software and Electronics team at i4PD evolves and the successful applicant should expect to play a significant part in developing both their own role and the nature of the team.

Desired Technical Skills

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



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Benefits:

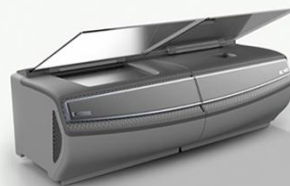
This hybrid role will allow you to work part of the time remotely if needed or full time in our bright and open studio based 25 minutes south of Edinburgh's centre in stunning rural surroundings with views of the Pentland Hills.

As a member of the i4PD team you will be offered a competitive package that includes an equal share of company tax-free bonuses through the employee trust (after 12 months service).

We recognise the value, to both you and the company, of maintaining a strong work life balance which we foster through flexible working patterns.

Enhanced sick pay, maternity/paternity leave and holiday schemes are also offered alongside a Cycle to Work scheme, EV lease scheme and numerous salary sacrifice benefits via Mintago (e.g. childcare/nursery costs, tax-free gym membership) as part of the package.





How to apply?

This is a superb opportunity to join a forward thinking and successful SME business. In return you can expect a competitive salary & company workplace pension in a challenging and supportive culture and the opportunity to grow your career.

Apply today by sending an email to jobs@i4pd.co.uk quoting job reference 'ESE05' and include the following:

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

designing the
future **together**

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