

## Position

Electronics Design Engineer

## About i4pd

i4pd is an employee-owned product design and development consultancy. The firm is an established brand in Scotland with an excellent reputation for giving a competitive edge to small and large businesses alike by bringing new or improved products to market. The company employs creative designers and experienced engineers who operate out of i4pd's studio on the south side of Edinburgh. The team work collaboratively with clients to augment their internal capabilities and availability. Specifically, the company supports its clients to add functionality, reduce cost, increase visual appeal, enhance usability, and keep pace with the IoT revolution.

## About the Role

This is an outstanding opportunity to develop your career as an engineer in a dynamic and growing design consultancy with an ethos of building lasting partnerships with clients. It has never been a better time to join the engineering team as we continue to grow with a number of new and existing clients. You will play an important part in the electronics and software team within the studio, working closely with i4pd's Principal Electronics Systems Engineer, fellow electronics engineers, and the software, mechanical and project management teams. You will interface directly with clients on external project work as well as supporting the advancement of internal R&D projects (such as Energy Harvesting). You can expect a competitive salary and company workplace pension and also offer a supportive culture with the opportunity to grow as an engineer.

## About You

You are a qualified electronics design engineer with a 5+ year track record in product development for a consultancy or manufacturer. You are a highly motivated individual who is quick to learn and able to manage working on multiple projects without direct supervision. You are able to speak with clients and non-technical stakeholders to understand their requirements and explain technical concepts. You always document your designs to a high level of quality and have worked on full product releases. You have multi-market product development experience which includes consumer and/or regulated products such as medical or similar.

## Key Responsibilities

- The remit for the role will be to
- Work with the team and clients to define detailed electronics & software requirements
- Guide designs towards meeting regulatory requirements as required
- Specify, design, and test electronic systems
- Develop prototype systems for proof of concept work using custom hardware and off-the-shelf components/modules
- Develop test circuits including sensor interfaces, communications and basic automation
- Review the work delivered to ensure it meets functional and quality requirements
- Support full-lifecycle product development

## Essential Technical Skills / Experience

- Degree level qualification in Electronics Engineering or equivalent
- 5+ years of industry experience
- Electronics Systems hardware design expertise for products at medium to high volumes i.e. have a good knowledge of EMC, DfM, etc.
- Broad electronics experience – analogue, digital, power supply, signal conditioning & sensors
- Knowledge in Low Power/IoT/Energy harvesting
- Schematic capture experience (preferably on Orcad)
- Circuit build, test & debug
- Familiarity with PCB layout guidance
- Testing/Debugging/Troubleshooting of designs

## Desired Technical Skills

- Embedded micro-controller design (e.g. ARM)
- Analogue circuit design including Analogue to Digital and Digital to Analogue systems
- Wireless connectivity (including Bluetooth/BLE)
- Serial communications – USB, RS232, SPI/I2C/ 1-wire other serial bus protocols
- Familiar with analogue & digital sensors and interfacing to acquisition electronics
- Data acquisition and analysis techniques
- Multilayer PCB layout
- EMC testing and troubleshooting
- Design for medical/regulated devices
- Embedded software capable (C, C++)
- IT networking

Email [jobs@i4pd.co.uk](mailto:jobs@i4pd.co.uk) quoting job reference '**Electronics Design Engineer**' and include the following

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