



## **Position: Electronics Design 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 the IoT revolution. 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 experienced Electronics Design Engineer who can design and develop electronic systems for customer projects across a wide range of industries. You will be responsible for delivering technical work which meets the high standards expected to ensure i4PD's standing in the development community, as well as complying with i4PD's internal Quality Management System (QMS). Your expertise will also be employed to provide technical review and training for more junior members of the electronics team.

You will be able to work part of the time remotely or full time in our bright and open studio based 20 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 a share of company dividends through the employee trust. 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 maternity/paternity leave is also offered alongside a Cycle to Work and EV Scheme as part of the package.

### **Key Responsibilities**

Electronic circuit design is the primary job function of the Electronics Engineer, and is categorised in three distinct set of activities:

#### **1. Architecture & Concepts**

- You will be required to work on Architecture and Concepts activities on your projects, including:
- Understanding Requirements and turning into solutions
- Researching and identifying best fit for the requirements
- Sketching full system diagrams
- Knowledge in compliance and risk management
- Collaborating with other disciplines

#### **2. PCBA Design**

- The core of your work will be to produce PCB assembly designs:
- Schematics & BOM
- Layout
- Component library management
- Tolerance analysis of parts / assemblies
- PCB & Components physical interface (layout)

### 3. Prototype & Test

- You will be required to work on prototyping and testing activities:
- Procurement of Prototypes
- Board Bring up
- Writing test specs
- Proof of concept & Test Rigs building
- Testing & Troubleshooting
- Fettleing & Modifications

### 4. Design Documentation and Reporting

- Maintaining accurate and up-to-date technical documentation
- Ensuring adherence to QMS processes and identified compliance standards
- Ensuring quality standard of any design outputs issued to clients or suppliers
- Produce and present material to both internal and external audiences

### 5. Professionalism

- Professional behaviour when dealing with clients, external stakeholders and colleagues
- Open and honest communication
- Seeking and welcoming feedback
- Active and collaborative approach to solving problems
- Providing and seeking support as required (particularly with regard to quality or safety issue)
- Maintaining a clear understanding of client/project requirements
- Ensuring productive and positive teamwork environment

## Qualifications/Requirements

### Essential Skills/Experience

- Bachelor's honours degree in Electronics Engineering or a related field.
- Minimum 3 years industry experience
- Capable in the design and delivery of functional prototypes and products that meet or exceed customer specifications
- Proficient in using oscilloscopes, multimeters, logic analysers, and other test equipment to troubleshoot and validate electronic designs
- Ability to identify technical risks in a project
- Able to identify and clearly communicate technical issues, come up with solutions or seek help from senior members to minimise impact on project timelines.
- Proficient in using design tools like Altium and Orcad
- Advanced user of MS applications including Excel, PowerPoint and Word
- Excellent written and verbal communication skills

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

Email [jobs@i4PD.co.uk](mailto:jobs@i4PD.co.uk) quoting job reference '**Electronics Design Engineer (EDE02)**' and include the following:

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