



Senior HW Design Engineer

Job Summary

Electronics Hardware Design Engineer with at least 5+ years' practical design experience.

Basic Core Skills

The role at Fen involves all stages of the design process from initial feasibility to supporting new product introduction at a CEM. You should be able to show past track record in **all** of the following areas:

- Full understanding of the design and development process
- A fundamental understanding of analogue electronics
- Key component selection process
- EDA Schematic capture, BOM generation & PCB layout
- Understanding of PCB fabrication and manufacturing process
- Usage of OEM Dev Boards prior to prototype hardware availability
- Experience with designs satisfying DFM, DFT and EMC/susceptibility conformance requirements
- Familiarity with participating in peer review processes
- Bench skills (soldering, Scopes & logic analysers)
- Scripting languages (e.g. Python)
- Power supply, battery system & basic wireless design knowledge
- Good track record of working constructively as part of a multi-disciplinary development team
- Ability to communicate effectively with clients and colleagues

Technical experience

You should be able to show past track record in at least **four** of the following areas:

- High-speed digital and analogue circuit design
- Switching power supply development
- Low-power designs for portable systems
- Experience of FPGA development and/or DSP algorithm design
- Experience of embedded CPU based designs
- RF modem and GNSS/GPS receiver subsystems
- Proficient with EDA schematic capture and analogue simulation packages
- Component selection determined by tight enclosure 3D mechanical constraints

In addition, you ideally should have some knowledge or interest in **three** or more of the following areas:

- Wearable electronics
- Connected 'Internet of Things' products
- Embedded control and monitoring solutions
- Functional Test systems for production
- ATEX compliant product development
- Location devices

As we often have to use the EDA tools that our clients request, we're keen to support you adapt your working methods to accommodate client requirements. We also expect you to be meticulous in the way you create design documentation, develop schematics and document test results. We use Subversion for our internal revision control, and our deliverables are peer-reviewed before they leave the building.

To apply, please send a cover letter and CV to: jobs@fentechnology.co.uk