



Graduate Electronic Design Engineer - Electric Vehicle Chargers & Consumer Products

Duku are a vibrant, well-established product design consultancy located in Cheltenham, Gloucestershire. We are offering an excellent opportunity for a Graduate Electronic Design Engineer to join our team to assist in the development of innovative electric vehicle charging equipment and a broad range of other projects including consumer products, mobility, health and fitness and medical devices.

We're looking for a motivated, passionate, and personable individual with demonstrable experience in electronic hardware development. The successful applicant will ideally have experience with PCB, circuit and schematic hardware design and firmware development.

To be successful in the role you will need strong project management skills and be able to deliver projects on time to a high standard. You will be a self-starter, able to work well both independently and as part of a wider team and build strong relationships with the design team, suppliers and clients.

Skills & Responsibilities

- Develop electronic solutions and PCBA's for consumer products including electromechanical, mains 230V.
- Electronic specification development.
- Involvement in system-level design and collaboration with electronics engineers in specifying and selecting appropriate microcontroller / processors to meet product requirements.
- Hardware and Firmware development and optimisation of electronic systems for low volume and large-scale production.
- Embedded systems, electronics and software.
- Circuit design, comms, analog & digital I/O, power supply, control & logic, PLC.
- Prototyping (including proof of concept), testing and validation and debugging of electronic solutions.
- Research and feasibility reports to advise on suitable solutions at an early stage of project work.
- Deliver cost effective and production ready electronic systems and circuit board design.
- Create clear schematics and generate efficient PCB designs.
- Day to day project management and reporting of progress for ongoing work.
- Generate PCB manufacturing information, such as gerbers, BOM, assembly drawings and pick and place files.

Requirements

- Degree in Electronics Engineering, Computer Science or related field.
- Experience of PCB/PCBA design for a range of products.
- Experience with microcontrollers development tools, compilers and debuggers.
- Analogue and digital hardware design skills.
- Experience in board debugging, fault finding and testing.
- Excellent computer and literacy skills.
- Strong communication, planning, and task management skills.
- Self-led with the ability to research and propose solutions to problems.

Desirable

- Experience in developing embedded software for commercial consumer electronics products.
- Bare metal & RTOS microcontroller software development in C on resource-constrained devices (8-bit / 16-bit / 32-bit microcontrollers).
- Experience with Embedded C/C++ and/or Python.
- Experience of working across multiple Operating systems (eg Linux, Android, embedded OS)
- Portfolio demonstrating a range of consumer products with Bluetooth, GPS, Electromechanical and 230V systems.
- Familiar with using electronic design automation software such as Altium.
- Development experience of IoT related connectivity technologies e.g. Wi-Fi, BLE, ZigBee, Ethernet.
- App development experience for iOS / Android devices.
- Experience with Microchip PIC & Arm Cortex-M devices.

Benefits

- Competitive salary.
- Working in the centre of Cheltenham.
- Free parking.
- Be part of a vibrant and growing design consultancy.
- An opportunity to develop an in-house electric / electronics team.