



I.C.E. Electronics

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Job Description: - Electronics Engineer

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Reports to

The Electronics Engineer will report to the Company Director.

Summary

The Electronics Engineer will design, develop and test components, devices, systems and equipment for I.C.E. Electronics.

The Electronics Engineer may be involved at any stage of a project including the initial brief for a concept, the design and development stage, testing of prototypes and the final manufacture and implementation of a new product or system.

Job Overview

We are a small specialist electronics design and manufacture company, focused in motorsport and industrial applications. This new position of Electronics Engineer will report directly to the Company Director. The new role has been created with the aim of expanding the company.

This will be achieved though improving the overall throughput whether that is with existing product lines or new design work. Work with existing product lines will require tasks including supply chain management, continuous improvement and testing. Design work will either be to expand I.C.E.'s live manufacturing portfolio or as design consultants on a range of projects.

You will be using a range of electronic computer design software. You will create models and prototypes as well as handle calculations required to create manufacture specifications.

You will be expected to work with a degree of autonomy and need to be self-motivated. It is important to ensure all I.C.E.'s electronics meet the highest standards of quality for our customers.

Being a small company there will also be, from time to time, the need to perform roles that do not fit within this job description. It is expected that any task is completed with the upmost professionalism.

Responsibilities and duties

- Identify and analyse the needs of customers and to create design specifications and work proposals.
- Work with colleagues to design new systems, circuits and devices or develop existing technology.
- Simulate and test theoretical designs and create technical reports
- Identify and recommend improvements to technical performance
- Ensure that a product will work with devices developed by others, can be made again reliably, and will perform consistently in specified operating environments
- Conduct system evaluations and make appropriate recommendations to modify designs or repair equipment as needed
- Create user-friendly interfaces
- Ensure safety regulations are met
- Test and characterise production parts.
- Carry out project planning and prepare budgets
- Supervise technicians, craftspeople and other colleagues.
- Inspect electronics to ensure compliance with all applicable regulations and safety standards

Qualifications

Educated to a minimum of degree level in Electronics Engineering or a closely related subject, ideally the candidate will have direct industrial experience of developing advanced electronics-based products, be enthusiastic, self-motivated and willing to work in a dynamic environment.

Skills

The Electronics Engineer requires the following skills: -

Software

- Relevant programming language

Firmware

- Embedded C deployed on a range of processor platforms
- VHDL
- Embedded data analysis techniques

Hardware

- PCB and circuit design using relevant CAD tool
- SPICE simulation
- Assembly and testing