

Position Profile



Details of the Position

Job Title: Design Engineer (Hardware/Systems)
Dept: R&D
Reports to: Engineering Manager
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Position Summary

Working within the Research and Development team, innovating, designing, developing and supporting systems and electronics hardware solutions for a variety of standard and bespoke products. Generating documentation for and controlling designs both internally and for external release.

Specific Responsibilities

- ◆ System level design in analogue and digital low-power electronics hardware.
- ◆ Detailed design of electronics hardware from initial concept schematic diagram through to manufacture
- ◆ Production of hardware specification documentation.
- ◆ Controlled release of designs and manufacturing information to BS EN ISO 9000: 2008 standard.
- ◆ System to component level test and debugging.
- ◆ Liaison with other members of the Research and Development Team.
- ◆ Project management.
- ◆ Support of and enhancements to existing electronics hardware.
- ◆ Customer and sales support

Position Requirements

Qualifications:

- ◆ Excellent academic achievements to degree level or equivalent in electronics engineering or closely related subject

And/or Experience:

- ◆ Able to provide at least 3 examples of instances where they have provided innovative ideas to products or designs
- ◆ Able to provide examples of the use of simulation tools to prove designs.
- ◆ Demonstrable design experience of electronics hardware design for embedded systems.
- ◆ Circuit design to single transistor level for analogue and digital signal processing
- ◆ Proficiency in mathematics and/or physics.
- ◆ Good understanding of mechanical design principles and electronics packaging
- ◆ EMC and Environmental testing
- ◆ Use of laboratory equipment (Oscilloscopes, DVMs, signal generators etc)
- ◆ Proficiency in PADs or other similar ECAD software

Additional advantageous experience:

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- ◆ Knowledge of sensors and sensing technology
- ◆ Understanding of software both high and low level
- ◆ Communication standards (CAN, RS485, RS232, USB etc.)
- ◆ Low power design
- ◆ Control Theory and DSP techniques

Person Specification

- ◆ Organised, self-motivated individual with initiative.
- ◆ Ability to work as part of a team
- ◆ Good communication skills, both verbal and written
- ◆ Must demonstrate a sound knowledge of engineering principles.

Reporting Structure

Design Engineer ⇒ Engineering Manager ⇒ Director, Gill R&D Ltd.

A position profile does not imply that the duties stated are the only ones to be performed by the incumbent. Employees will be required to follow any other reasonable job-related instruction as requested by their manager or a company director