Job Description

SENIOR ELECTRONICS HARDWARE ENGINEER

Exciting opportunity with a Cambridge based designer & manufacturer of computer connectivity hardware.

ROLE DESCRIPTION

We are looking for a multi skilled Senior Electronics Hardware Engineer who enjoys taking a design concept and turning it into a cool product. This fulfilling technical role involves utilizing a wide spectrum of electronic hardware design skills at the various stages of the product development cycle.

A typical project will usually start off with a research or investigation stage with the opportunity to innovate and influence the product concept. Subsequent stages involve a mixture of detailed electronic design work, DFM/DFT, optimal component selection, key supplier liaison, schematic capture, circuit board stackup design, HyperLynx simulation, layout consultation, EMC performance optimisation, thermal engineering, prototype bring up, hardware debugging and analysis, EMC and HALT testing, all culminating in liaison with production in the on-site factory. Seeing the product that you have designed roll of the production line in volume will deliver a huge degree of job satisfaction.

Although most products tend to involve a lot of fast and complex digital logic with modern FPGAs, fast memory and processors/cores, products also tend to involve a range of other support electronics including some analog design. Consequently, there is an opportunity to develop and use a range of diverse and interesting design skills. Commonly there are also opportunities to use VHDL or Verilog code to exercise the hardware and write various software elements to bring up the circuit board functionality.

Alongside working the other hardware engineers, you will be working closely with our software engineering team, test team and new product introduction group. Our Product Management team is also embedded within engineering to ensure the closest alignment between your work and the end customers' requirements and ensuring that we keep our envied reputation for reliability and technology at the forefront of our industry.

Job Description

This is an ideal position for an energetic hardware engineer who is ready to make a difference and continuously create innovative and exciting new products that are critical to our customers' success. If you love Hardware Engineering, want to work in a team that is focused on becoming world class and in a company that is constantly profitable, combining the best of being privately owned and being part of the high-tech Cambridge phenomenon, we want to talk with you!

EDUCATION AND EXPERIENCE

Essential

- A strong degree in Electronics or an equivalent subject.
- Considerable experience in hardware design as an Electronic Engineer.
- Experience of creating cost effective solutions that meet aggressive product feature, cost, quality, performance, and time to market requirements.
- Experience of high speed digital design and development methodologies.
- Experience of schematic capture tools.
- Knowledge of PCB layout tools sufficient to brief layout consultants and understand signal integrity and EMC issues.
- Experience of debugging hardware using high speed scopes and a diversity of other tools.
- Experience with a diversity of FPGA and microprocessor circuits.

Desirable

- Knowledge of video, fast network and USB circuits.
- Thermal engineering experience.
- VHDL and/or Verilog coding experience.
- Experience of analogue design and development methodologies.
- Use of HyperLynx and other simulation tools.
- Excellent interpersonal skills.
- EMC and/or HALT testing experience.

Job Description

General requirements

- Complete dedication to producing compelling hardware solutions.
- Strong debugging and problem analysis skills.
- Focus and emphasis on teamwork to achieve results.
- Good English language communication skills, both written and oral.
- Ability to work well with all types of people, contributing on team level and as well as on an individual level.