

## Job Description

**Job title:** Senior Design Engineer (Hardware)

**Location:** Havant

**Reports to:** Project Engineering Team Leader / CEM

**Department:** Conversion Group

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### Main purpose of job

As a member of the Conversion Group, this role involves the design and development of Hardware and Algorithms for products within the broadcast environment. This will include responsibility for Hardware and Algorithm development, from technical specification through to product release, with delivery of high quality end product a key aim.

A strong technical background is necessary, combined with a flexible and open minded approach to problem solving, to provide solutions for our customers.

The role will work with the Product Manager and Development Support Engineer to ensure that product meets the customers' needs.

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### Main functions & responsibilities

- Working with Product Manager and or Project Engineering Team Leader to assist in technical specifications.
  - Architectural Product design.
  - Architectural FPGA design.
  - Algorithmic design.
  - Board design – Schematic capture, net-listing, PCB layout support.
  - System and Product verification and integration.
  - Fault finding and rectification as necessary to meet product quality requirements.
  - Maintaining appropriate documentation of specifications, guidelines and designs.
  - Design and coding according to company standards whilst maintaining good hardware development practice and in-line with the product process.
  - Project management - report time-scale estimates for designs and committing to keeping them, risk and cost assessment.
  - Working with other engineers as part of a team and fostering positive team spirit
  - Close liaison with product management and verification to assist in the understanding of issues and to provide prompt attention to identified problems.
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## **Qualifications**

Degree in Electrical and Electronic Engineering or a related discipline.

## **Knowledge/Experience**

### **Required:**

The candidate should have experience in the commercial development of products, with a robust background of hardware analysis and design. Consequently needs to be conversant with current design technologies and practices. The candidate should be self-motivated and keen to succeed.

### **Experience in the following areas is essential:**

- Ability to perform system, application and product verification
- Assisting with product specifications – Audio, Video and metadata fundamentals
- Architectural System/Product design
- Firmware development from algorithm concepts and design. Verification of algorithm concept meets final firmware implementation
- Architectural FPGA design – VHDL language.
- Design tools to assist in the development of products – Modelsim, XST, Bugzilla and CVS (version control)
- Board design – Schematic capture, net-listing, layout techniques and considerations, PCB layout support.
- Logging, communicating, investigating and tracking technical and customer issues to resolution.
- Product process – Understanding of the necessary ISO requirements - procedures, processes and content.

### **Experience in the following areas would be helpful:**

- Knowledge of Conversion products and algorithms
- Familiarity with engineering tools and equipment to aid product development and verification
- Intellectual property – awareness, documentation, management
- Project management – reporting progress, reviews, timescales and risks

### **Skills/Abilities:**

- Good interpersonal and communication skills
  - Must demonstrate ability to exercise independent judgement, initiative and tact in both internal and external relationships
  - Problem solving aptitude
  - Confidentiality/trust.
  - Ability to make decisions
  - Organizational and project management skills
  - Accurate and attentive to detail
  - Ability to work unsupervised and as a team player when required
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## **Contacts**

### Internal

- Daily contact with other members of the team
- Regular contact with Product Management, Technical Sales and Development Support Engineers

### External

- Some contact with third-party development partners and customers
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## **Additional Information**

- Must have a full driving Licence
  - This role will require occasional national and international travel
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## **Performance Standards**

- Achieve mutually agreed objectives, standards and dates
  - Performance reviews will be conducted on an annual basis in addition to interim progress reviews
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## **Reason for vacancy**

- Replacement
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