Job Description

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Senior Hardware Engineer</th>
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<tbody>
<tr>
<td>Job Reference</td>
<td>TRL0517</td>
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<tr>
<td>Department</td>
<td>Electronic Warfare</td>
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<tr>
<td>Function</td>
<td>Engineering</td>
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<tr>
<td>Title of Supervisor</td>
<td>Head of Discipline: RF &amp; Hardware</td>
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<tr>
<td>Direct Reports</td>
<td>Up to 3</td>
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Primary Purpose of this Position

To provide significant technical input to the design, implementation and testing, leading to technical ownership of embedded software projects.

Main Duties of this Position

- Design of analogue and digital circuits for low-power battery-powered and high-power vehicle systems. To take responsibility for the design and overall quality of the hardware, and provide leadership and guidance for junior engineers.
- Documentation of design specifications and implementation details. Lead design reviews. Upholding of hardware design standards and methodologies.
- Realisation of complex system requirements to provide robust and reliable hardware solutions.
- Responsibility for the complete implementation of detailed technical items and an understanding/appreciation of system level items.
- Flexibility is essential as specifications may not be fully defined at the start of development, and liaison with customers for continued feedback and input of requirements is likely throughout the development.
- Collaboration with other team members (including both hardware and software engineers) to agree system designs, interfaces and protocols etc.
- Development of appropriate test hardware and procedures, both informal and formal, to prove the correct operation of hardware.
- Provide support for the hardware and manage component obsolescence throughout its lifecycle.
- Monitoring and reporting of progress of development to immediate supervisor and development team.
- Proactively support company compliance to Health and Safety legislation through adherence to company polices, processes and practices.
- Ensure that all business activity is conducted in line with company values, policies and ethics codes of conduct.
- Undertake any other activity as reasonably requested by management
Knowledge & Experience:

Essential:
- Degree qualified in Electronic Engineering/related subject (preferably at 2.1 Hons or higher).
- Minimum of 5 years’ proven design experience in industry.
- Excellent knowledge of analogue and digital electronic circuit design.
- Ability to write comprehensive technical design documentation.
- Proven experience in handover and management of designs in production.
- Excellent hardware troubleshooting skills.
- Able to support/debug system integration
- Good communicator

Highly Desirable:
- Use of Mentor Graphics schematic entry and PCB layout tools.
- Experience of C, preferably in embedded applications.
- Support and perform software debugging.
- Design of circuits containing embedded processors and FPGAs
- High speed serial networks
- An appreciation of RF electronics
- Interfacing to high speed data converters
- Efficient DC power supply design
- SC clearance

Behaviours:
- Ability to work individually and in a team.
- Innovative thinker and problem solver.
- Ability to effectively research and solve complex technical issues.
- Excellent interpersonal skills.
- Ability to work effectively with customer representatives from a variety of backgrounds, ranging from junior to the most senior levels whilst displaying a confident, polite and professional demeanour at all times.
- Good attention to detail.
- Flexible and adaptable.