



Job Description

Position:	Mid / Senior Hardware Engineer
Type / Duration:	Permanent
Directly reports to:	Hardware Team Lead
Reports (dotted-line) to:	none
Direct reports:	none
Regularly interacts with:	<p>Internal (across UK, Swedish and Indian offices):</p> <ul style="list-style-type: none"> • Hardware Team • Software Team • Test / Validation Team • Engineering Manager • Architecture Team • Sales Team • NPI Team <p>External:</p> <ul style="list-style-type: none"> • Test / Accreditation facilities • Suppliers / CEM's / Vendors
Primary location:	CyanConnode office on Milton Road, Cambridge
Travel requirements:	Occasional visits to external test laboratories / possible international travel to CEM's
Primary Project:	Various PSU / RF projects / High Speed Digital / High Volume / High Reliability
Role description / primary responsibilities:	<p>Delivery of existing and upcoming projects:</p> <ul style="list-style-type: none"> • A 'hands-on' role that will involve working within the scope and timeline of the project plans to design, verify, certify and deliver products to meet the project acceptance criteria.

	<ul style="list-style-type: none"> • Support / lead existing projects and progress them through to completion. • Design mixed signal RF, digital, high voltage products from the ground up. • Design against the electromechanical requirements defined for the project. • Design for high volume production. • Design for reliability and required product lifetime. • Applying the requirements defined by the company's formal stage gated design process along with the written and verbal presentation of the necessary material. • Work with the operations team as well as suppliers and CEM's to get hardware produced, and then validated. • Work with the software team to specify firmware functionality for onboard micro's and EMC compliance. • Working with the latest EMC / RED / RF standards with external test laboratories to achieve EMC / RF, and country specific certifications where applicable. • Design of manufacturing test processes with NPI, Software and Operations teams. • Design test fixtures to achieve required levels of test and throughput in volume manufacturing. • Work with the software team to specify manufacturing test software / including state / flow diagrams and test cases. • Lead production trials, manufacturing process bring up.
<p>Experience and skills required:</p>	<p>Essential Skills and Experience</p> <ul style="list-style-type: none"> • Minimum 6 years' experience delivering hardware products from specification to industrialised / manufacturable product. • Proficient use of Altium Designer for schematic capture, PCB layout and BOM generation and CAM output. • Experience integrating RF and Cellular solutions into digital designs. • Design and layout of complex electronic systems that include SMPSU / high speed digital / analogue and RF technologies. • Proven experience delivering products with EMC compliance / RF / Certification and supporting test laboratories through the process. • Design for test, manufacturing, traceability and reliability. • Design of manufacturing test processes. • Design of test fixtures and manufacturing tools. • Creation of HDD's, datasheets, product descriptions, test reports, etc, in clear, concise written English. • Understanding of structured design lifecycle processes, working to committed plans and delivering related material determined by the processes. • Must be hands on with the ability to work/rework the latest SMT Components / Passives/ IC's. • Use of standard lab equipment including Oscilloscopes, Spectrum Analysers, V&A's to fault find and analyse designs. • Full UK drivers licence and the ability to travel independently to test facilities. <p>Desirable Skills and Experience</p> <ul style="list-style-type: none"> • Highly motivated and enthusiastic self-starter.

	<ul style="list-style-type: none"> • Experience working on product designs intended for large scale system deployment. • Experience of security critical product design. • Project and process management skills. • Power supply design, including SMPSU design. • Experience of “Internet of Things” and Smart Cities • Experience of ISM band radio. e.g. ZigBee, IEEE 802.15.4, 6LoWPAN, WiFi, Bluetooth.
Personal attributes:	<ul style="list-style-type: none"> • Excellent communication, collaboration and organisational skills. • Team player that works well with others as well as working individually without close supervision. • Able to find innovative solutions to often complex problems. • Open to accepting advice when underrating work outside of the normal comfort zone, as well as confident enough to share advice when working with other members of the team. • Willingness to work outside normal office hours when necessary, in order to achieve business goals.
Qualifications:	<ul style="list-style-type: none"> • Required: A high level qualification in Electronics or Electronic Engineering. • Preferred: A degree in an electronics focused degree, ideally electronic systems.