

CANDIDATE SPECIFICATION



JOB TITLE	Senior Electronic Engineer		
REPORTING TO	Electrical Systems Manager or Engineering Development Manager (depending on location)		
DEPARTMENT/SUB DEPARTMENT	Engineering		
LOCATION	Southend or St. Neots		
OVERALL PURPOSE			
To carry out electrical design activities to support hardware development for aerospace and military applications			
PRINCIPLE ACCOUNTABILITIES			
<p>If located in <u>St. Neots</u>:</p> <ul style="list-style-type: none"> • Design Power Supply and mixed signal modules for use in military or aviation applications • Perform Analogue and/or Digital circuit design and Power Supply design • Perform Schematic Capture using ECAD software (Altium / OrCAD / Mentor), review PCB layout and work with PCB Draughtsman to create PCB assemblies • Optionally to perform Embedded software development using C/C++ or FPGA development <p>If located in <u>Southend</u>:</p> <ul style="list-style-type: none"> • Perform system level electrical design for aircraft seats and galley inserts • Design for electrical system EMC / Environmental / Reliability targets for seats and galley inserts • Specify and perform integration testing of electrical systems • Provide assistance to lead engineers in fault finding of, and modifications to, prototype products • Perform software validation testing, to verify that equipment function corresponds to its detailed functional requirements • Optionally to perform Embedded software development using C/C++ or FPGA development <p><u>Irrespective</u> of location:</p> <ul style="list-style-type: none"> • Mentor less experienced Engineers, lead development activities and communicate progress to different stakeholders • Review customer requirements to ensure compliance to them, produce product specifications from them and propose Means of Compliance and Verification for them • Investigate new design solutions to support product development • To support, as required, meetings with suppliers and customers • Support Verification & Validation testing by creating test plans, test reports, setting up and performing tests • Circuit Analysis and Simulation • Design for Manufacture / EMC / Environmental / Reliability • To provide electrical / electronic support to design staff during development and testing of a range of products • Investigate and provide reports on V&V and Qualification test failures and customer returns and queries • Perform Component level testing on: software, populated PCBs, and electrical assemblies • Fault finding to component level • Support Production improvement actions, in resolving issues, assisting in creation of Acceptance Test Plans • To help create and maintain a safe working environment and observe the published Health and Safety procedures • To carry out any other tasks where reasonable and relevant, when required. <p>This is not an exhaustive list.</p>			
QUALIFICATIONS		ESSENTIAL	DESIRABLE
HNC / HND Electrical / Electronic Engineering		✓	

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MSc Electrical / Electronic Engineering		✓
EXPERIENCE/ SKILLS	ESSENTIAL	DESIRABLE
Experience in Design and Development or Test		✓
Experience designing electronic hardware to meet DO-160 / MIL-STD's / DEF-STAN or BS EN standards	✓	
Good practical skills (hands on approach) in a lab environment	✓	
Experience of aircraft, defense or automotive electronics industry	✓	
Experience of design, testing or qualification of aircraft Galley products		✓
Experience of sub-system software requirements		✓
Proficient in MS office suite of applications	✓	
Experience using LabVIEW / MATLAB		✓
Experience in testing embedded systems	✓	
Leading of small Engineering teams, planning and management of projects	✓	
Ability to liaise with Product Design team and external design facilities	✓	
Detail design of digital and analogue Electrical / Electronic systems	✓	
Knowledge of C or C++ programming		✓
Knowledge of electronic component selection and substitution	✓	
Understanding of electrical safety	✓	
Experience in Electrical Power testing related to three phase aircraft electrical systems		✓
Knowledge of aircraft electrical regulatory requirements.	✓	
Experience of qualification and certification of aircraft products	✓	
Experience of Electrical and EMC Test Plan creation	✓	
Knowledge of requirements management	✓	
Able to travel and work overseas from time to time		✓
Adaptable, professional outlook and initiative with attention to detail	✓	
Ability to work independently while collaborating in a team environment	✓	
Ability to work under pressure and to deadlines	✓	
PERSONAL SKILLS	ESSENTIAL	DESIRABLE
Team Player	✓	
Strong Work 'Can-do Ethic'	✓	

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Exceptional at building relationships	✓	
Excellent Customer Service skills	✓	
Strong attention to detail and time management	✓	
Exceptional Planning and Organisation skills	✓	
High awareness of Productivity and Quality	✓	
Excellent Communication skills	✓	
Flexibility	✓	
Takes Responsibility for actions	✓	
Learn, Apply and Improve	✓	