



Enterprise Control Systems Ltd

JOB DESCRIPTION AND PERSONAL SPECIFICATION

Post Title:	Principal Product Design Engineer
Department:	Engineering
Reports to and how fits into the structure:	Engineering Manager
Who reports into the post holder:	Product Design Engineer
Key working relationships:	N/A
Main Purpose of the job:	<p><i>We are looking for an enthusiastic, Principal Product Design Engineer to join a small, but experienced, engineering team.</i></p> <p><i>They will be part of a dynamic team continually designing and developing world beating products.</i></p> <p><i>ECS is an SME in the defence and aerospace markets whose products are fully designed, manufactured and tested internally. As a result this role will be very diverse.</i></p>

Key Responsibilities

	Overall responsibility of the Product Design team in achieving the requirements set out by the Engineering Manager.
	To take a lead role in product development. This role is predominantly a design-based role.
	<p>The following key responsibilities and skills will be required.</p> <ul style="list-style-type: none"> • 3D Modelling (Solid Edge). • Mechanical Design. • Conceptual design of products.
	Production of design documentation and review of design documentation produced by other.
	Line Manager for lower grades assigned to your design function.
	Monitor and evaluate novel materials and the latest technologies.

	<p>Experience and skills in some of the following areas is also desirable;</p> <ul style="list-style-type: none"> • Working in the Electrical and Electronic, Defence, Aerospace, Broadcast or Telecommunications sectors. • Knowledge of wiring, cable harnesses and wiring diagrams. • Stress Analysis. • Thermal awareness and analysis (modelling desirable) • Ergonomics/Human Factors • Full product lifecycle knowledge and experience. • EMC • Design for Environmental Conditions (DO160 and MIL-STD-810)
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Personal Specification

	Essential	Desirable
Qualifications & Training required:	-	Degree in Mechanical Engineering or related subject.
Previous or relevant work experience necessary:	A minimum of 5 years' experience in an equivalent role.	A minimum of 10 years' experience in an equivalent role.
Personal Qualities & Attitude	Self-motivated and enthusiastic. Able to work in a team and interact with other Engineering disciplines.	Ability to produce results under pressure.
Product Knowledge	-	An understanding of products aligned with the ECS portfolio.
Special requirements of the post	-	-

Key Competencies required for the job

Self-motivated, a strong team player with good interpersonal skills.	Professional approach to all work.
British Citizen due to required security clearance.	Attention to detail.
Ability to complete projects including all necessary paperwork.	Ability to develop and teach others within the design function.

Note: This job description is not exhaustive and will be subject to periodic review. It may be amended to meet the changing needs of the business. The post-holder will be expected to participate in this process and we would aim to reach agreement on any changes