



Job Description

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Mechanical Architect Gimbal (DJDDJD2024018)

Roles	Mechanical Architect	
Responsibilities	<ul style="list-style-type: none"> • Lead and manage a team of mechanical designers and engineers, providing guidance, coaching, and mentorship to foster their professional growth and development. • Assign design tasks and projects to team members based on their skills and expertise, ensuring effective utilization of resources. • Conduct regular performance evaluations, provide feedback, and identify training needs to enhance team members' capabilities. • Identify opportunities for process improvement within the mechanical design team, streamline workflows, and enhance productivity and efficiency. • Plan, conceptualize, and create mechanical designs for new products. • Generate working prototypes for testing and demonstration. • Perform engineering calculations to support design work. • Create and review technical drawings, plans, and specifications. • Collaborate with multi-disciplinary engineering teams, and work with vendors and contractors. • Perform detailed documentation to track project development and design process. 	
Category		Description
Qualifications	Bachelor's or Master's degree in Mechanical Engineering or a related field.	
Experience	10-15 years experience	
	Defense Product design like Stabilised Platform, Opt Mechanical systems	
	Expertise with CAD software (Creo 3.0, SolidWorks, Autocad)	
Technical & Process Capabilities	Skilled in designing stabilized gimbal platforms and opto-mechanical systems for defense applications, with expertise in selecting key gimbal components, including motors, slip rings, encoders, gyros, housing materials, bearing seals, and more. Proficient in developing mechanical designs for sensor housings, stabilization platforms, and gimbal structures, ensuring precision and durability	
	Experienced in conducting dynamic analysis and simulations to optimize system performance under various operational conditions, along with system-level testing	
	Knowledgeable in GD&T, tolerance stack-up analysis, and reverse engineering, with a strong foundation in design concepts focused on DFM and DFMEA.	
	Skilled in developing and maintaining technical documentation, including 3D CAD models, mechanical drawings, and assembly instructions	
	Capable of vendor development, supplier interactions, and experienced in planning, execution, manufacturing, machining processes, and product development	
	Collaborates effectively with cross-functional teams, including electronics hardware, Software, and quality	
Behavioural Capabilities	Collaborative , Capable to interact / interface with customers, cross functional team	
	Self driven	
	Excellent Communicaiton, verbal & written	
	Passionate & Learning ability	
Skill Sets	Strong knowledge in Engineering standards followed [ANSI,ISO,ASTM]	
	Product level Problem identification and troubleshooting capabilities.	
	Responsible for the design, development and implementation of custom mechanical tooling, fixturing, and associated processes to enable the handling, assembly and/or disassembly of parts, components, sub-assemblies and final assemblies throughout the product life cycle. Establishes standards across all operational processes	
	Empower Juniors and Subordinates to be up with team standards and Quality. Innovative thinking to develop quick mechanisms to prove the concepts, present, demonstrate to product management for approvals.	
Values	Accountable & Responsible, Ethics & Integrity, Knowledge, Collaboration, Caring, Agility, Empowerment with Accountability and Sustainability	

Preferred Experience, Knowledge & Attributes	Defence, Industrial , Allied domain Knowledge
	Environmental Tests based on MIL-STD-810G, MIL STD 461E and JSS 55555.
Compensation	To be filled by HR