

Lead Engineer Design- Motor

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Company: Marmon Technologies India Pvt Ltd

Location: bangalore

Category: other-general

Job Description Designation : Lead Engineer Design- Motor Design Reporting to : Project

Lead Design Location : Bangalore, Full Time Qualification : BE / M-Tech in Mechanical

Engineering Experience : 6 - 8 Years in Motor Design Field Key Responsibilities /

Functions: · Motor Design: Lead the mechanical design process for various types of motors, including AC motors, DC motors, brushless DC motors, and servo motors. ·

Component Design: Develop detailed designs for all mechanical components of motors, including rotors, stators, shafts, bearings, housings, and cooling systems, considering factors such as material selection, manufacturing processes, and heat transfer efficiency. · Material

Select: Utilize your expertise to select appropriate materials for motor components, considering factors such as mechanical properties, thermal conductivity, and cost-effectiveness. · ion:

Utilize your expertise to select appropriate materials for motor components, considering factors such as mechanical properties, thermal conductivity, and cost-effectiveness. · Manufacturing

Process: Collaborate with manufacturing teams to optimize production processes for motor components, ensuring manufacturability, efficiency, and quality control. · Heat Transfer

Optimization: Implement effective heat transfer mechanisms within motor designs to

ensure optimal thermal management and prevent overheating issues. · Structural Simulation:

Utilize structural simulation tools to analyze and optimize the structural integrity and performance of motor components, ensuring durability and reliability under various operating

conditions. · CFD Analysis: Utilize Computational Fluid Dynamics (CFD) techniques to analyze and optimize the airflow and cooling systems within motors, maximizing thermal

efficiency and performance. · Cross-functional Collaboration: Collaborate closely with electrical

engineers, design engineers, and other stakeholders to integrate mechanical and electrical systems seamlessly within motor designs. · Documentation and Reporting: Generate comprehensive design documentation, including drawings, specifications, and test reports, to ensure clear communication and documentation of design decisions and outcomes. Required Qualifications: (Education, Technical Skills/Knowledge) · Bachelor's degree in Mechanical Engineering or related field. Master's degree preferred. · 6-8 years of experience in the field of motor design, with a strong focus on mechanical engineering aspects. · Thorough knowledge of various types of motors, their construction, and principles of operation. · Proficiency in CAD software (e.g., SolidWorks, AutoCAD) for 3D modeling and design. · Experience with structural simulation software (e.g., ANSYS, Abaqus) and CFD analysis tools (e.g., Fluent, COMSOL) is preferred. · Strong understanding of material science, manufacturing processes, and heat transfer principles. · Excellent problem-solving skills and the ability to think creatively to overcome design challenges. · Effective communication skills and the ability to collaborate effectively with cross-functional teams. · Strong attention to detail and a commitment to delivering high-quality designs that meet performance and reliability requirements.

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