

Job Description: Electric Vehicle (EV) Design Engineer – Vehicle Engineering- R&D**Position:** Design Engineer - Vehicle Engineering**Location:** Kalol, GIDC, Near Gandhinagar, Ahmedabad, Gujarat.**Department:** Vehicle Engineering**Job Type:** Full-Time

Job Overview:

We are seeking a passionate and skilled Electric Vehicle (EV) Two-Wheeler Engineering Engineer to join our dynamic team. The ideal candidate will be responsible for the design and development of electric two-wheelers, contributing to various aspects such as frame, swing arm, structural part, wheels, steering, powertrains, sheet metal parts, Aluminum casting parts and vehicle integration. The role will involve close collaboration with R&D, design, and development teams to ensure the highest standards of performance, safety, and quality for our EV two-wheeler products.

Key Responsibilities:**Design and Development:**

- Lead the design and development of electric two-wheeler systems and components, including frame, swing arm, structural part, wheels, steering, powertrains, sheet metal parts, Al casting parts and vehicle integration & architecture.
- Integrate and optimizing subsystems for the overall vehicle performance, handling, weight, energy efficiency, durability and reliability.
- Work in designing the vehicle frame, chassis, and ergonomics to ensure an optimal balance between performance and comfort.
- Work in for design calculations, 3D modelling and detail 2D drawings in SolidWorks software.

Vehicle Systems Engineering:

- Conduct system-level engineering to optimize the integration of electrical and mechanical systems for EV two-wheelers.
- Collaborate with cross-functional teams to define requirements for key vehicle systems, ensuring they meet performance, safety, and regulatory standards.
- Work on tools like DFMEA, DFA, DFM, Six sigma, GD&T
- Work on vehicle engineering BOM and drawing release system.

Compliance and Regulatory Requirements:

- Ensure the electric two-wheeler products comply with all local, regional, and international regulations and safety standards (e.g., roadworthiness, battery safety, electromagnetic compatibility).
- Stay updated with emerging standards and regulations within the EV and automotive industry and incorporate them into the development process.

Continuous Improvement:

- Contribute to the continuous improvement of the product development processes, driving efficiency and ensuring the best practices.
- Collaborate with the testing and manufacturing teams to streamline processes and address any production or operational challenges.

Collaboration:

- Work closely with cross-functional teams, including industrial design, product management, manufacturing, and quality control, to ensure the successful launch of electric two-wheeler products.
- Engage in regular communication with management to provide insights on engineering developments and product roadmap.

Required Qualifications:

- **Education:**
 - Bachelor's degree or Diploma in Mechanical Engineering, Automotive Engineering, or a related field.
- **Experience:**
 - Minimum of 2-4 years of experience in the automotive or electric vehicle industry, with a focus on vehicle component design and engineering.
 - At least 1 years of experience in a two-wheeler industry.
 - At least 2 years of experience in Mechanical component design in SolidWorks software.