

SP Ultraflex Systems Pvt Ltd

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Senior Design Engineer – R&D

Responsibilities

- Design and develop new machines or features as per technical specifications or defined objectives.
- Conduct market research to analyze similar products and their functions, and understand the marketing requirements for a product.
- Build concept models using 2D or 3D CAD software based on market surveys.
- Responsible for detailed design for products, including GA drawings, 3D modeling, design validation, manufacturing drawings, checking, and detailed BOM.
- Perform design validation using methodologies such as tolerance stack-up, design calculations, material and manufacturing process selection, design simulations, and design analysis.
- Provide design inputs and guidance to junior engineers for drafting and detailing.
- Ensure that all design activities comply with SOPs and checklists.
- Contribute to redefining SOPs and checklists as needed.
- Coordinate with the Automation team to integrate electrical and pneumatic components into mechanical designs and assist them in defining control logic.
- Coordinate with the production team to ensure designs adhere to DFM and DFA techniques.
- Contribute to the planning, execution, and monitoring of product testing, and ensure project completion within timelines.
- Arrange periodic meetings with cross-functional teams and management at various stages of development, such as brainstorming sessions, concept finalization, final design, and execution.
- Interact with customers to learn and update new product designs based on changing customer needs.
- Perform VAVE for existing products to optimize cost and enhance product performance.
- Work on Design Modification Requests (DMRs) raised by other cross-functional departments and provide optimized solutions.
- Prepare product presentations or animations to assist the sales and marketing team in customer presentations or for use in product brochures and catalogs.

Qualification:

- B. Tech/B. E in Mechanical engineering
Experience 6-8 years in preferably Machine building/Heavy Equipment

Technical Skills:

- Proficiency in SolidWorks & any 2D CAD software.
- Experienced in Material and Manufacturing process selection.
- Good in Machine structure design, Structural analysis and stress calculations.
- Expertise in mechanical design calculation and selection of bought out components.

Hiring organization

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Date posted

March 10, 2025

- Experience in VAVE, DFM & DFA.
- Expertise in ISO/ASME Standards and Geometric tolerances.
- Good knowledge about ERP and PLM tool
- Good in presentation skill.
- Having knowledge of Corel Draw will have an added advantage.
- Having knowledge of Animations in SolidWorks will have an added advantage

Behavioural Skills:

- Self-Motivated and zeal for personal knowledge upkeep and upgradation
- Creative and Innovative Openness
- Knowledge Sharing
- Systems Oriented
- Goal Setting & Planning,
- Time management.