RENU MEDTECH PRIVATE LIMITED
Venture Center, 100, NCL Innovation Park, Dr. Homi Bhabha Road, Pashan, Pune - 411008
Email: contact@renumedtech.com | Website: https://www.renumedtech.com/

Mechanical Engineering Intern – Mechanical Design & Product Development

Role Snapshot:

Position	Mechanical Engineering Intern – Mechanical Design & Product Development
Internship Duration	3 Months
Location	Pune
Work Mode	On-site
Internship Type	Full-time Internship
Education	B.Tech/M.Tech in Mechanical Engineering
Preferred Background (Added Advantage)	Medical Devices, Wearable Devices, Product Design, Precision Mechanisms, Machine Design, Robotics, Consumer Hardware, Small Mechanisms, Injection Moulded Products, Precision Manufacturing, Biomedical Engineering, or Regulated Hardware Products
Role Objective	Contribute to mechanical design, CAD modelling, simulation, prototyping, testing, documentation, and manufacturability of compact wearable medical device subsystems while working with the engineering team from concept generation through engineering validation and iterative product development.

Key Responsibilities

Mechanical Design & CAD

- Develop 3D CAD models, assemblies, engineering drawings, exploded views and Bill of Material (BOM).
- Design precision mechanisms, miniature assemblies, enclosure systems, structural components, cartridge interfaces, fixtures and test rigs.
- Perform engineering calculations, tolerance stack-up analysis and design optimisation.

Prototype Development & Validation

- Build and evaluate prototypes using additive manufacturing, CNC machining, Laser cutting, etc., and vendor-manufactured components.
- Support prototype assembly, integration and iterative design refinement.

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- Conduct engineering testing, dimensional verification, fitment studies, tolerance analysis and design iterations.

Simulation & Engineering Analysis

- Perform structural, motion and mechanical simulations using ANSYS, SolidWorks Simulation or equivalent CAE software.
- Conduct stress, strain, deformation, contact, fatigue (where applicable), factor of safety and basic thermal analyses.
- Validate engineering concepts using simulation results and recommend design improvements.

Manufacturing & Product Engineering

- Support material selection considering strength, manufacturability, cost and product performance.
- Apply Design for Manufacturing (DFM) and Design for Assembly (DFA) principles.
- Work with suppliers and manufacturing partners during prototype development.

Cross-functional Collaboration

- Collaborate with mechanical, electronics, embedded, industrial design and manufacturing teams.
- Prepare engineering documentation, simulation reports, technical reports and design review presentations.

Preferred Technical Skills

- Machine Design, Product Design, GD&T, Engineering Drawings and Tolerance Analysis.
- Knowledge of CNC machining, injection moulding, additive manufacturing and precision manufacturing.
- SolidWorks, Creo, CATIA, Fusion 360 or Siemens NX.
- ANSYS, SolidWorks Simulation or equivalent CAE tools.
- Strong analytical, problem-solving and documentation skills.

Our Company is an equal-opportunity employer and does not discriminate against any employee or applicant based on age, color, disability, gender, national origin, race, religion, sexual orientation or parental status.

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