

Principal Mechanical Engineer

Singapore

About Us:

Are you interested in changing the lives of 1 billion people?

Zimplistic is the invention story of our times. Rotimatic, our flagship product, has powered a traditional manual culinary method with next gen technology and innovation. It is a flatbread making platform, the first kitchen robot.

Rotimatic has an addressable market of approximately \$16bn, covering geographies that have south Asian diaspora, India, and other wrap and flatbread markets like South America and Middle east.

We have scaled many peaks in the last 10 years -product readiness, manufacturing for mass run, 60,000+ customers, IOT manifested among others.

You can check Rotimatic in action here : <https://www.youtube.com/watch?v=M6z6-eq0RT8>

About the Role:

We are currently looking for a dynamic Principal Mechanical Design Engineer to join our R&D Team. The Principal Mechanical Design engineer will be responsible for performing design and analysis to support research and development of our products. You will lead concept phase, design activities, reviews and reports design's progress. Assignments are broad in nature, requiring appreciable initiative, originality, ingenuity and excellent problem solving skills. The ideal candidate will have love for technology, excellent analysis skills, advanced mechanical engineering experience and a good understanding of complicated appliances. This role is part of an Advanced Development team focused on the longer term, strategic concepts and designs that are required for the company's future products.

Responsibilities:

- Complete ownership of mechanical design, with proven track record in mechanism design
- Research design options and perform experiments to determine potential design feasibility or application.
- Construct prototypes; evaluate and document their performance; identify possible improvements
- Specify, design and evaluate mechanical and electromechanical portions of systems and components.
- Lead implementation of suitable tests to verify designs meet mechanical requirements
- Responsible for design/development activities which will include leading, participating in, coordinating or supporting:

-Define specification

-Concept, planning, design and execution stages

-Risk assessment

-Prototyping/testing

-Design reviews
-Verification & Validation

- Be a technical leader for major product development projects and ensure that design activities are coordinated as per the project needs.
- Prepare technical reports, product documentation and do patent drafting support.
- Assist in the creation and release of Product Requirements, Design Specifications, and Design Descriptions for assigned designs, applicable standards and procedures.
- Mentor engineers.
- Provide technical support for Production ramp-up as and when required.

Experience & Qualifications:

- Bachelors/Masters/PhD (full-time) in Mechanical/Mechatronics Engineering.
- 15+ years related engineering experience
- 3-5 years experience as Principal engineer

Requirements:

- Must have Hands-on experience constructing complicated mechanical prototypes utilizing rapid-prototyping methods and equipment
- High degree of comfort with ambiguity in early-phase investigative projects
- Should be very well versed with 2D and 3D CAD modeling software.
- Working understanding of sensors and electronics
- Should have good knowledge of - Mechanical part design and production limitations for: injection moulded plastic, die cast metal, rubber and sheet metal stamping.
- Experience estimating the effort to reach phase milestones and coordinating the team activities to meet schedules and goals
- Outgoing personality with a strong desire to provide mentorship within the organization
- Is a self-starter, can manage multiple tasks, and work with minimal supervision
- Demonstrated experience in successful project management including defining projects, scheduling, and costing.
- Experience working with cross functional teams.