

Mechanical Design Engineer

Zimplistic Inventions Singapore, Singapore

About the role:

We are seeking Mechanical Design geeks and adventurers to join us as a part of our core R&D team for designing the next-in line products at Zimplistic.

In this next leg of our product innovation journey, we are working on new product ideas and concepts to further build an innovative product-line in the kitchen robotics space.

If you are a true engineer & a problem solver with a passion for building innovative products with real world understanding of concept to production, we are looking for you!

Responsibilities:

- Responsible for working on new product ideas and design concepts.
- Driving requirement specification and conducting feasibility studies.
- Brainstorm together with the team to generate new ideas to come up with groundbreaking designs.
- Work on conceptual and detailed design, detailed drawings, using 3D solid modeling (Solidworks) 3D models, 2D drawings.
- Support in Tolerance Analysis (TA) exercise, Failure Mode Effect and Analysis (FMEA), Design For Assembly and Manufacturing (DFA, DFM), failure analysis and tracking report.
- Ensure all key risks and issues are clearly reported, ideally with corrective action plans.
- Work closely with local and overseas vendors to develop new components, materials & processes.
- Review first manufacturing sample parts, engineering builds and the preparation of reports.
- Work closely with electrical/electronic, firmware, food technology, QA teams to ensure product performance, reliability and cost targets are met.

Requirements:

- 0-2 years experience in mechanical design especially in designing complex electro-mechanical products/consumer electronics.
- Must hold a Mechatronics or Mechanical Engineering degree with relevant work experience.
- Strong mechanical engineering fundamentals, including design principles, machine elements, materials etc.
- Should be well versed with 2D and 3D CAD modeling softwares e.g. Solidworks.
- Should have good knowledge of - Mechanical part design and production limitations for: injection moulded plastic, die cast metal, rubber and sheet metal stamping
- Experienced in FMEA, DFA and DFM, GD&T
- Must have hands-on experience in mechanisms, moving parts, gear etc.
- Team player with good communication skills
- Fresh Graduates with relevant project work/internship experience are welcome to apply.