



Job Description

Title: Mechanical Packaging Engineer

Reports to: Systems Engineering Product Manager

Department: Engineering Support

Summary - Job Responsibilities – Activities:

Functions:

- Work as a primary member of the product support team to develop solutions to solve product issues and applications.
- Generate design and documentation packages and work with purchasing, manufacturing and vendors on make/buy decisions. Support would also be provided to the in-house and external vendors to understand and resolve manufacturing and quality issues as they arise.
- Utilize solid modeling design tools to perform and document detailed designs.
- Perform cost analysis of resulting designs and propose alternative technologies or techniques to reduce cost.
- Perform tolerance analysis on mechanical designs to assure proper form, fit, and function.
- Generate and execute test plans to validate design requirements and document limitations.
- Generate assembly drawings and process documentation for manufacturing with the assistance of designers..
- Generate inspection plans to assure the quality and consistency of manufactured and vended assemblies and components.
- Work with manufacturing and outside vendors to improve mechanical designs and eliminate defects.
- Propose methods and technology to improve cycle-time (manufacturing) of electro-mechanical assemblies.
- Perform other duties as required.
- Generating Engineering Change Orders (ECOs) to document and implement changes new and existing products.
- Key design areas include: thermal design, e and electrical system interconnections, enclosure layout and architecture, safety, maintenance and field service issues, dynamic shock and vibration with respect to equipment weight, mounting and location, general chassis and cabinet layout, and test and production fixtures.

Education - Experience:

BSME in Engineering or related field.

At least 3 years of experience in electronic packaging or a combination of schooling and experience.

Required Skills, Competencies, Authorities and Training Needs:

- Knowledge of 2-D & 3-D CAD systems required. Excellent working knowledge of Solidworks is preferred.
- Knowledge of ISO standards for technical drawings.



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- Knowledge of design and manufacturing processes for sheet metal, bus bars and plastic parts.
 - Knowledge\experience in power electronics packaging is preferred.
 - Knowledge of insulation, fabrication materials and coatings used in the electronics industry.
 - Knowledge of NEMA classifications for cabinetry.
 - Knowledge of ventilation & cooling practices used in electronic cabinetry.
 - Ability to communicate ideas and concepts orally and in writing.
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Any other training requirements / comments

AMSC is an EEO M/F/D/V

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