

Mechanical Design Engineer – Electronic Products

Company: CoachComm
Department: Engineering

Position: Salaried
Revised: 12/20/2024

JOB SUMMARY:

The Mechanical Engineer researches and designs components and mechanical systems for packaging electronic product assemblies used in harsh environments. Applications require knowledge of plastics, injection molding, surface design, displays, user interface, sealing techniques, IP ratings, thermal management and structural module design. The employee will create 3D model files of mechanical housings, components, tooling and fixtures; create 2D manufacturing drawings; work closely with various component suppliers; and performs other duties as assigned. A hands-on approach and basic fabrication skills is critical to success in this role.

KEY RESPONSIBILITIES:

- Analyzes product specifications and performance requirements to determine designs which provide a good balance of performance, functionality, cost, and ease of manufacture.
- Directs and physically participates when needed in the construction and testing of prototypes to evaluate the design and functionality of the product.
- Solicits and evaluates input from various sources regarding product design and functionality to meet project, customer and manufacturability requirements.
- Review product designs for compliance with standard engineering practices, company and industry standards, customer requirements, and related specifications.
- Creates, maintains, and/or directs the creation of essential design information and documentation throughout the product lifecycle
- Evaluates feasibility and applicability of newer technologies and methods to products and designs
- Meet or exceed typical expectations for creativity, productivity, quality, and safety

QUALIFICATIONS:

- Industry design experience packaging electronic modules and controlling design data with 3D CAD software. SolidWorks & SolidWorks PDM preferred.
- Strong mechanical aptitude, industrial design and problem-solving skills
- Understanding of manufacturing processes such as injection molding and machining
- Experience with 3D printing, machining tools, mills, and drill presses
- Design For Manufacturing (DFM) and tolerance stack analysis
- Knowledge in the selection and use of materials including plastics, steel, and aluminum.
- Knowledge in standard drafting practices and the application of the ASME Y14.5M Dimensioning and Tolerance standard or similar.

JOB REQUIREMENTS:

- Bachelor's Degree in Mechanical Engineering with minimum 5 years design experience
- Excellent leadership, teamwork, and communication skills
- Results-driven, action-oriented, positive and energetic
- Strong organizational, prioritization, and time management skills
- Ability to locate, select and communicate with vendors
- US Citizenship or Permanent Resident status