

## Mechanical Design Engineer

**Department:** Engineering

**Reports To:** Mechanical Design Engineer Manager

### Essential Functions of the Role:

- All aspects of the mechanical design of electronic packaging of high power and high frequency RF Amplifiers, from initial concept through production cycle
- Design of weather tight ruggedized enclosures for commercial, military and airborne environments
- Working within a multi-disciplinary design team
- **Other duties as requested by management.**

### Major Duties and Responsibilities:

- Solid modeling (2D/3D CAD) design for parts, assemblies and drawings
- Drawing and Bill of Material submission for release in PLM system (Agile)

### Minor Duties and Responsibilities:

- Thermal analysis for electronics cooling using SolidWorks Simulation (FEA) and SolidWorks Flow Simulation (CFD)
- Structural analysis for ruggedized outdoor assemblies in MIL-STD-810F & RTCA/DO-160G environments

### Key Competencies:

- SolidWorks
- AutoCAD
- Strong drafting skills including ASME Y14.5M standards
- Geometric Dimensioning & Tolerancing (GD&T) standards
- General machining and sheetmetal design knowledge and practices
- Materials and metal finishing design and knowledge and practices
- Strong design for ease of manufacturing knowledge including hands-on capabilities
- Familiar with IPC standards for electronic assemblies
- Familiar with PCB layout standards and practices
- Good computer skills using various software programs (Microsoft Office, PDM & PLM systems)
- Strong communication, organizational skills
- Able to be detail focused and multi-task well in a fast paced working environment
- BS Degree

### Physical Requirements:

- While performing the duties of this position, the employee is regularly required typing skills.
- Must be able to lift up to 10 pounds
- Must be able to sit for an extended period of time

**The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations made by to enable individuals with disabilities to perform the essential functions.**

**Duties and responsibilities can be changed at any time at management discretion.**

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Director of Human Resource / Date

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Supply Chain Manager / Date