



Example of Senior Mechanical Design Engineer Job Description

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Our company is searching for experienced candidates for the position of senior mechanical design engineer. If you are looking for an exciting place to work, please take a look at the list of qualifications below.

Responsibilities for senior mechanical design engineer

- Participate in departmental initiatives to improve tools and processes (Model Based Enterprise, Guide files)
- Dynamic and thermal performance analysis for magnetics designs
- Direct technical interface for customers
- Joint development projects with precision assembly group
- Cross-functional collaboration with prototype build group and production group
- Design visualization efforts with 3D CAD models and essential component and assembly details to explore multiple design options
- Developing engineering design concepts for components and electromechanical assemblies that have stringent requirements for size, precision, reliability and cost
- Performing simple analytical modeling, simulation and analysis at parts /sub system and product levels
- Performing high level of tolerance stack up calculations and use Geomantic Dimensioning and Tolerancing
- Developing product, component test and purchase specifications

Qualifications for senior mechanical design engineer

- Experience packaging batteries
- Preferred 2 years of design or related experience

- Must be able to analyze and resolve complex product design issues of a broad scope using independent judgment
- Excellent documentation skills (Specifications, Test Plans, Test Reports)
- Experience with Matlab or Mathcad and/or M.S