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# Example of Mechanical Designer Job Description

Our growing company is hiring for a mechanical designer. Please review the list of responsibilities and qualifications. While this is our ideal list, we will consider candidates that do not necessarily have all of the qualifications, but have sufficient experience and talent.

## Responsibilities for mechanical designer

* 3D design work, ability to execute minimally to moderately complex design projects
* Assists in machine design, modeling, component sizing and specification, and part detailing
* Creates project documentation including Bill of Materials, spare parts lists, operation and maintenance manuals, assembly procedures and check sheets, repair procedures, management reports, and project schedules
* Design the lowest cost product that meets customer requirements
* Read and understand customer requirements documents related to design
* Integrates new designs into BOM system
* Continually monitors lead times for parts procurement to meet bus production schedule
* Provide technical support and training of others when required
* Responsible for directing or executing corrective action when shop problems are encountered
* Assist on development projects as requested by supervisor

## Qualifications for mechanical designer

* Working knowledge of metal fabrication processes and material selection
* Experience designing tooling for integration and testing of electronic packaging
* CAD experience with efficient handling of large featured assemblies such as satellites, aircraft, ships, automobiles, across multiple platforms'
* In depth understanding of Geometric Dimensioning and Tolerancing, ASME Y14.5M-2009
* Experience with the generation of tight tolerance machined aluminum components
* Ability to apply GD&T per ANSI Y14.5