

# Mechanical Design Engineer

**Jason Jacobs**

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## Summary

Mechanical engineer with more than seven years of experience providing technical design direction on hardware, mechanical products, machine parts and components for global ISO manufacturers. Proficient at creating detailed mechanical drawings for piece parts and assemblies from Solidworks/NX models. Adept in maximizing form, fit and function through meticulous design model evaluation. Backed by advanced skills in DFM best practices and ERP systems and database/data-storage programs.

## Work Experience

### **Mechanical Design Engineer** **2010-05 - Present** **NASA**

- Preparing the bill of materials.
- Traveling to the project site when necessary to take physical measurements required to complete requested designs.
- Overseeing mechanical design phases from concept through the production.
- Weighing cost constraints while preparing project design schedules.
- Collaborating with a senior mechanical engineer on large scale projects.
- Confirming compliance with design standards.

### **Design and Development Engineer** **2007-03 - 2010-04** **Google**

- Managed all phases of the design process for a multitude of products, components, parts, assemblies, and subassemblies, including drafting, dimensioning, tolerancing, prototyping and documenting results.
- Commended for strengths in defining, assessing and satisfying complex product functional specifications and manufacturability concerns.
- Designed innovative component/module replacements for existing machinery that improved functioning and extended the life of equipment thought to be obsolete for a fraction of the total replacement cost.
- Developed new assemblies that accelerated the client production line speed by up to 25%.
- Became the go-to expert on evaluating design models for ISO, and form-fit-function compliance.
- Saved money in costly rework through careful design review that identified flaws in new subassembly and parts models prior to production.

### **Junior Design Engineer** **2003-03 - 2007-02** **GE Aviation**

- Learned design and uses of Life Safety Net 2000, Edwards Signature series & Wheelock Fire protection devices.
- Created submittal packages of riser drawings, wiring details, panel drawings, as-built (Data Gathering Panel, Strobe panel, modules, etc.) with the use of Contract Sales Administrator software.

## Education

### **Bachelors of Mechanical Engineering** **1999 - 2003** **California Institute of Technology**

## Skills

### **Microsoft Office Suite**

- Word
- Excel
- Access
- Outlook
- PowerPoint

### **Energy Conservation Measures**

- Boiler Tuning
- Efficient Lighting & Aquastat Temperature Reduction

### **AutoCAD Associate and Professional**

- 2D Drafting & Simulation

## CORE COMPETENCIES

- Keyshot, Coreldraw
- Seven Quality Control Tools
- Design Of Experiments (DOE)
- Statistical Process Control (SPC)
- Autocad, Solidworks, CATIA, NX-CAD
- Measurement System Analysis
- Failure Mode & Effect Analysis
- Geometric Dimensioning & Tolerance (GD&T)

## Interests

- Yoga
- Traveling
- Machine Learning
- Personal Development
- Environmental Protection