



# Senior Mechanical Product Design Engineer

# Ruby Grace

## Professional summary

Accomplished Senior Mechanical Product Design Engineer with 11+ years of experience in the design and development of high-performance mechanical systems for a variety of industries, including consumer electronics- , medical devices, and industrial equipment. Expertise in 3D CAD modeling, prototyping, and collaborating with cross-functional teams.

## Experience

### Senior Mechanical Product Design Engineer

April 2019 - Now

Thermo Fisher Scientific / San Francisco, CA

- Lead the design and development of laboratory instruments, streamlining product processes and reducing time-to-market by 25%.
- Spearhead the redesign of the company's flagship centrifuge, resulting in a 30% reduction in manufacturing costs while improving durability and performance.
- Collaborate with cross-functional teams including marketing, sales, and manufacturing to ensure products met customer requirements and market trends.

### Mechanical Design Engineer

June 2016 - March 2019

GE Appliances / Louisville, KY

- Designed and engineered components for kitchen appliances, improving customer satisfaction ratings by 15%.
- Performed material testing and analysis to recommend cost-effective and durable materials for product designs.
- Played a key role in optimizing the design of dishwashers, which led to a 10% reduction in energy consumption and a significant improvement in efficiency.

### Junior Mechanical Engineer

January 2014 - May 2016

Honeywell International / Morris Plains, NJ

- Assisted senior engineers in the design and testing of various industrial products, ensuring compliance with safety and quality standards.
- Created detailed 3D models using SolidWorks, contributing to the development of new product lines.
- Participated in cross-departmental teams to address product design challenges and improve the overall development cycle.

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## Links

in LinkedIn

## Education

### Master of Science in Mechanical Engineering

Stanford University – Stanford, CA

Graduated: May 2013

### Bachelor of Science in Mechanical Engineering

University of Michigan – Ann Arbor, MI

Graduated: May 2010

## Certifications

- Certified SolidWorks Professional (2020)
- Lean Six Sigma Green Belt (2019)

## Skills

3D CAD Software (SolidWorks, AutoCAD) ◆◆◆◆◆

Finite Element Analysis (FEA) ◆◆◆◆◆

Product Lifecycle Management (PLM) ◆◆◆◆◆

Thermal and Structural Simulation ◆◆◆◆◆

Prototype Development ◆◆◆◆◆

Cost Reduction Strategies ◆◆◆◆◆

Material Science Expertise ◆◆◆◆◆