

Daniela Thompson

Mechanical Engineer

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Summary

Results-driven mechanical engineer with 5+ years of experience in product design, manufacturing optimization, and process automation. Proven ability to reduce production costs by 18%, improve system efficiencies, and lead cross-functional teams to drive innovation. Seeking to bring problem-solving skills and technical knowledge to Hawaii Tech Solutions to develop cutting-edge mechanical solutions.

Experience

Mechanical Engineer

Pacific Manufacturing Corp., Honolulu, HI

March 2023–Present

- **Designed and optimized 5+ high-precision mechanical components, reducing material waste by 12% while maintaining structural integrity.**
- **Spearheaded an automation initiative that cut down assembly time by 30%, saving over \$250K annually in labor costs.**
- **Led a 6-member engineering team in redesigning a key product line, increasing production efficiency by 22%.**
- **Developed and implemented finite element analysis (FEA) simulations, reducing prototype failures by 40%.**
- **Collaborated with cross-functional teams to integrate Lean Six Sigma practices, eliminating 17% of process inefficiencies.**

Key Achievement:

- **Reduced overall manufacturing defects by 25% through root cause analysis (RCA) and process refinements.**

Design Engineer

Island Tech Solutions, Hilo, HI

June 2020–February 2023

- **Developed 3D CAD models and engineering drawings for prototype components, accelerating design validation by 20%.**
- **Conducted material analysis and stress testing, improving durability by 15% in key mechanical assemblies.**

- Implemented cost-saving design modifications, reducing production expenses by \$180K annually.
- Collaborated with the R&D team to introduce 2 new product designs, which generated an 8% increase in sales.
- Standardized technical documentation and design protocols, leading to 30% fewer design iteration cycles.

Key Achievement:

- Optimized a high-performance cooling system, enhancing efficiency by 23% and securing a patent for the design.

Education

Bachelor of Science in Mechanical Engineering

University of Hawaii, Hilo, HI

September 2015–June 2019

- Recipient of the Outstanding Engineering Student Award, 2015
- Published research on additive manufacturing advancements in Hawaii Engineering Journal

Skills

- CAD Software (SolidWorks, AutoCAD, CATIA)
- Product Development & Prototyping
- Finite Element Analysis (FEA)
- Computational Fluid Dynamics (CFD)
- Problem Solving & Troubleshooting
- Team Collaboration
- Decision-Making
- Communication

Certifications

- Professional Engineer (PE) License – National Society of Professional Engineers (NSPE), 2024
- Certified Manufacturing Engineer (CMfgE) – Society of Manufacturing Engineers (SME), 2022
- Six Sigma Green Belt – American Society for Quality (ASQ), 2022
- AutoCAD Professional Certification – Autodesk, 2021

Awards & Honors

- **Engineering Innovator of the Year, Pacific Manufacturing Corp., 2022**
- **Best Product Design Award, Island Tech Solutions, 2021**

Memberships

- **Member, American Society of Mechanical Engineers (ASME)**
- **Member, Society of Automotive Engineers (SAE)**