

Timothy York

Mechanical Engineer II

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SUMMARY

Dedicated Mechanical Engineer with over four years specializing in cost reduction and mechanical design. Skilled in collaborating with cross-functional teams to enhance product margins through smart redesigns and thorough validations. Proficient in CAD systems, technical documentation, and testing methodologies. Passionate about driving efficiencies and innovations in engineering projects for consumer products. Eager to leverage expertise at Innovative Engineering Solutions to contribute forward-thinking solutions that elevate business performance.

EXPERIENCE

Mechanical Engineer

Dynamic Engineering Solutions 📅 June 2024 - Present 📍 Madison, WI

Serves as a leading Mechanical Engineer focused on cost reduction for new consumer products, exemplifying strategic partnerships across divisions.

- Lead cost reduction projects for newly launched consumer products, driving significant improvements in gross margins.
- Collaborate closely with cross-functional teams, identifying design inefficiencies and executing effective redesign strategies.
- Utilize advanced CAD software to accurately model components and produce detailed engineering drawings to support production.
- Conduct comprehensive testing and validation of redesigned parts, ensuring alignment with rigorous product specifications.
- Prepare extensive technical documentation and reports for diverse project stakeholders, enhancing transparency and accountability.
- Support development efforts for Air-Cooled Standby Generators through targeted initiatives aimed at cost effectiveness.

Mechanical Engineer

Innovative Product Designs 📅 May 2022 - May 2024 📍 Green Bay, WI

Oversaw mechanical engineering functions with a focus on optimizing costs and materials, significantly impacting overall product efficiency.

- Spearheaded redesign of mechanical components, achieving a notable reduction in production costs by evaluating material utility.
- Performed thorough 'should cost' analyses to assess return on investments regarding proposed projects, facilitating informed decisions.
- Worked extensively with manufacturing partners and sourcing engineers to refine designs for peak cost efficiency and functionality.
- Reviewed material specifications and supported bill of materials generation for innovative new products, streamlining workflows.
- Conducted proactive design reviews targeting cost reduction opportunities, ensuring close alignment with defined financial objectives.
- Documented outcomes meticulously, providing valuable insights that drive future engineering initiatives.

Mechanical Engineer Intern

Engineering Innovations Inc. 📅 June 2021 - April 2022 📍 Kenosha, WI

Gained hands-on experience in mechanical engineering while assisting in redesigns and participations in collaborative developmental discussions.

- Assisted in the redesign of components for home standby generators, contributing significantly to improved margin outcomes.
- Supported cost analysis projects, delivering insightful assessments of material usage along production processes and potential savings.
- Engaged in cross-disciplinary design meetings alongside senior engineers and product specialists, fostering shared learning and innovation.
- Developed CAD models and detailed engineering drawings under guidance, adhering consistently to upheld industry standards.
- Participated actively in multiple phases of testing and validation, capturing results to maintain compliance with essential safety protocols.
- Contributed diligently to technical documentations outlining design processes and summary of operational outcomes.

LEADERSHIP & AWARDS

- Outstanding Young Engineer Award - 2025
- Innovation Recognition - Engineering Innovations - 2022

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Wisconsin-Milwaukee 🎓 GPA: 3.8 📅 2026 📍 Milwaukee, WI

Coursework: Thermodynamics, Dynamics, Fluid Mechanics, Materials Science

CERTIFICATIONS

- Certified SolidWorks Associate (CSWA) 📅 2025
- Lean Six Sigma Green Belt 📅 2024

TECHNICAL SKILLS

- **CAD Software:** SolidWorks, AutoCAD, CATIA
- **Testing Tools:** ANSYS, LabVIEW, MATLAB
- **Project Management Tools:** Asana, Trello, JIRA
- **Simulation Software:** COMSOL, ANSYS Fluent, Abaqus
- **Notification Systems:** MELFA Robot, Phidget Sensors, SCADA
- **Documentation Standards:** ISO 9001, ISO 14001, AS9100
- **Manufacturing Platforms:** CNC Machining, Additive Manufacturing, Injection Molding
- **Process Improvement Tools:** Lean Methodology, Kaizen, Value Stream Mapping
- **Engineering Compliances:** UL Listing, CE Marking, CSA Cert.
- **Communication Tools:** Microsoft Teams, Zoom, Slack

SKILLS

- CAD Design
- Mechanical Engineering
- Cost Reduction
- Technical Documentation
- Testing and Validation
- Cross-Functional Collaboration
- Prototyping Techniques
- Material Properties
- Failure Analysis
- Project Management
- Engineering Standards
- Industrial Design
- Data Analysis
- Product Development
- Root Cause Analysis

PROFESSIONAL AFFILIATIONS

- Member of ASME (American Society of Mechanical Engineers)
- Active contributor to local Engineering Charity Events

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST