

Finn Robles

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SUMMARY

Accomplished Mechanical Engineer with over 12 years dedicated to audio product development and mechanical design strategies. An expert in FEA analysis, fluid dynamics, and material science gained through hands-on experience across diverse projects. Proven ability to lead engineering teams in delivering innovative solutions on time and within budget. Engages effectively in cross-functional collaboration, optimizing product performance while ensuring quality compliance. Committed to mentoring junior engineers fostering growth and enhancing overall team capabilities. Eager to apply deep technical expertise to shape the future at Innovative Audio Solutions Inc.

EXPERIENCE

Senior Mechanical Engineer January 2018 - Present
Advanced Audio Technologies Chicago, IL

Leading a talented team in designing and developing high-fidelity audio equipment from concept through production. This role demands intricate project management skills, overseeing the full lifecycle of complex projects involving different engineering disciplines.

- Implemented advanced FEA analysis techniques that optimized product designs and reduced material costs significantly.
- Fostered collaboration with electrical and firmware teams, greatly improving system integration of audio products.
- Established and enforced engineering standards for CAD models and documentation, ensuring regulatory compliance.
- Directed root cause analysis initiatives that efficiently minimized production defect rates.
- Mentored junior engineers, enhancing their technical skillsets and career development.
- Facilitated project timelines, specifications, and cost analyses for various mechanical design landscapes.

Mechanical Engineer June 2012 - December 2017
Sound Engineering Solutions Naperville, IL

Focused on designing and testing mechanical components for wireless audio products, contributing significantly to new product lines. Managed multidisciplinary collaborations to achieve strategic business objectives.

- Contributed to the successful launch of new product lines, resulting in increased market share.
- Analyzed thermal dynamics to boost product reliability, directly enhancing customer satisfaction.
- Worked with cross-team functionality for accurate project requirements and timely deliverables.
- Generated detailed 3D models and drawings in Siemens NX, streamlining manufacturing processes.
- Executed process improvement initiatives resultant in heightened efficiency across operations.
- Participated in DFM and DFA strategy implementations, notably decreasing assembly times.

Junior Mechanical Engineer August 2009 - May 2012
Innovative Audio Projects Schaumburg, IL

Supported various projects focusing on manufacturability and sustainability while engaging in system-level design studies.

- Assisted in system-level design, contributing towards effective solutions during development stages.
- Engaged in fluid dynamics simulations, vital for performance enhancements across ongoing projects.
- Documented engineering processes adhering to quality assurance protocols and operational mandates.
- Prepared comprehensive stakeholder presentations showcasing project progress and outcomes.
- Developed foundational CAD modeling skills facilitating prototype testing for improved design iterations.
- Collaborated closely with senior engineers ensuring a strong learning curve and impactful contributions.

LEADERSHIP & AWARDS

- Recipient of Advanced Audio Excellence Award 2022 for outstanding contribution to product innovation and team leadership.
- Recognized as Engineer of the Year at Sound Engineering Solutions in 2016 for exceptional performance in team projects.

EDUCATION

Bachelor's Degree in Mechanical Engineering 2009
University of Illinois GPA: 3.7 Champaign, IL
Coursework: Thermodynamics, Fluid Mechanics, Materials Science, Product Design

CERTIFICATIONS

- Certified Professional Engineer 2015
- Leadership in Engineering Teams Certification 2020

TECHNICAL SKILLS

- **Design Software:** Siemens NX, SolidWorks, AutoCAD
- **Analysis Tools:** ANSYS, COMSOL, MATLAB
- **Manufacturing Techniques:** Injection Molding, CNC Machining, Metal Fabrication
- **Project Management Tools:** Trello, Microsoft Project, Asana
- **Collaboration Platforms:** Slack, Microsoft Teams, Zoom
- **Quality Control Standards:** ISO 9001, Six Sigma, Lean Manufacturing
- **Data Analysis Tools:** Python, Excel, R
- **Testing Protocols:** Reliability Testing, Performance Testing, Compliance Testing
- **Product Development Methodologies:** Agile, Waterfall, Stage-Gate
- **Regulatory Compliance:** FCC Regulations, CE Marking, RoHS Compliance

SKILLS

- FEA Analysis
- Fluid Dynamics
- Material Science
- CAD (Siemens NX)
- Injection Molding
- Project Management
- Cross-functional Collaboration
- Root Cause Analysis
- Audio Design
- Prototype Development
- Team Mentorship
- System Integration
- Quality Assurance
- Product Testing
- Thermal Analysis

PROFESSIONAL AFFILIATIONS

- Member of American Society of Mechanical Engineers (ASME) focusing on ongoing industry education and standards.
- Active participant in local engineering community initiatives promoting STEM education among students.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST