

Svetlana Greer

Principal Product Design Engineer

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SUMMARY

Accomplished Principal Product Design Engineer with a decade of experience in electro-mechanical product design and development. Passionate about driving innovation and creating market-responsive solutions. Demonstrated success leading projects from concept through high-volume production, including the research and prototyping of advanced interconnect technologies. Proven capability to communicate complex technical information effectively across diverse teams. Committed to fostering growth in others while maintaining a focus on collaborative success. Always eager for new learning experiences and knowledge application, ensuring alignment with customer expectations.

EXPERIENCE

Principal Product Design Engineer

Tech Innovations LLC 📅 June 2021 - Present 📍 Chicago, IL

In this role, led innovative product design and development efforts focusing on electro-mechanical systems, contributing significantly to project and organizational success. Responsible for guiding project teams from initial concept to full-scale production while addressing pressing industry challenges.

- Spearheaded development of high-speed cable and connector systems, improving efficiency substantially and enhancing product competitiveness.
- Collaborated tightly with engineering and manufacturing teams to prototype emerging technologies, increasing project turnaround times by streamlining workflows.
- Drove creation of impactful intellectual property surrounding new technology, aligning with organizational goals for innovation and market leadership.
- Mentored junior engineers extensively, cultivating a supportive team environment that encourages shared knowledge and skills enhancement.
- Compiled detailed product specifications and rigorous testing documents tailored to align with stringent customer requirements and regulatory standards.
- Orchestrated cost-reduction strategies that led to a notable decrease in production costs through intelligent and effective design optimizations.

Senior Product Design Engineer

Engineering Solutions Inc. 📅 April 2016 - May 2021 📍 Naperville, IL

Oversaw critical advancements in product design and system implementation, serving a key role in evolving technological frameworks while elevating user satisfaction levels.

- Directed the design and development of advanced electro-mechanical systems, achieving improved reliability metrics and higher customer ratings.
- Employed Finite Element Analysis (FEA) and GD&T methodologies strategically to ensure material durability, resulting in significant reductions of field failure rates.
- Engaged deeply in researching emerging technologies and manufacturing techniques, successfully rolling out methods that shifted production processes positively.
- Fostered collaboration between marketing and product teams to sculpt responsive project scopes, harmonizing product roadmaps with real-world market needs.
- Delivered compelling technical presentations, garnering stakeholder agreement on ambitious product strategies aimed at dominating industry niches.
- Designed comprehensive training platforms for new hires that facilitated swift onboarding and deeper integration into projects.

Product Design Engineer

Advanced Engineering Corp. 📅 March 2012 - March 2016 📍 Schaumburg, IL

Successfully contributed to design initiatives and improvements in cross-functional teamwork to advance overall production capabilities and throughput.

- Executed designs and tests for various electro-mechanical components, securing essential compliance certifications across multiple standards.
- Partnered with manufacturing groups to reengineer production lines, overseeing a marked increase in operational output and throughput efficiencies.
- Managed timelines across simultaneous projects without compromising quality, fortifying the organization's reliability within often demanding schedules.
- Partook in continuous professional development through relevant workshops, instantly applying new methods to ongoing engineering tasks.
- Revolutionized communication pathways among project collaborators by instituting routine updates and collective brainstorming sessions.
- Contributed actively to product line expansions, enabling wider market capture and boosting company positioning amid competitors.

LEADERSHIP & AWARDS

- Recognized as 'Engineer of the Quarter' for outstanding performance in project execution at Tech Innovations LLC, Q1 2023.
- Awarded 'Innovation Champion' at Engineering Solutions Inc. for introducing transformative processes impacting productivity, 2020.

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Illinois at Urbana-Champaign 🎓 GPA: 3.7 📅 2011 📍 Urbana-Champaign, IL

Coursework: System Dynamics, Thermodynamics, Fluid Mechanics, Material Science

CERTIFICATIONS

- Certified Six Sigma Green Belt 📅 2025
- Advanced CAD Techniques 📅 2024

TECHNICAL SKILLS

- **CAD Tools:** SolidWorks, AutoCAD, CATIA
- **Analysis Software:** ANSYS, COMSOL Multiphysics, MATLAB
- **Manufacturing Processes:** Injection Molding, Die Casting, CNC Machining
- **Quality Control Tools:** Six Sigma, Statistical Process Control, Root Cause Analysis
- **Collaboration Platforms:** Microsoft Teams, Slack, Asana
- **Project Management Tools:** JIRA, Trello, Microsoft Project
- **Prototyping Tools:** 3D Printing, Rapid Prototyping Techniques, Injection Molding
- **Testing Equipment:** Load Cells, Tensile Testing Machines, Pressure Sensors
- **Regulatory Standards:** ISO 9001, ASTM International, ASME
- **Research Tools:** Secondary Research, Survey Development, Experimental Design

SKILLS

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|---|----------------------------------|------------------------------------|---------------------------|
| • Finite Element Analysis (FEA) | • Project Management | • Prototype Development | • Technical Communication |
| • Geometric Dimensioning and Tolerancing (GD&T) | • Cross-Functional Collaboration | • Intellectual Property Generation | • Research Methodologies |
| • Advanced parametric 3D CAD | • Injection Molding | • Electrical Engineering | • Problem Solving |
| • Product Development | • Cost Reduction Strategies | • Quality Assurance Processes | • Mentoring and Coaching |

PROFESSIONAL AFFILIATIONS

- Member of the Society of Automotive Engineers (SAE) since 2015, participating in local committee activities.
- Active participant in the American Society of Mechanical Engineers (ASME), focusing on panel discussions and workshops.

LANGUAGES

- English (Native)
- Russian (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST