

Deeanna Troka

Senior Design Engineer

Profile

Senior Design Engineer with 5 years of experience in developing innovative and cost-effective solutions for complex engineering challenges. Proficient in CAD software, project management, and cross-functional team collaboration. Proven track record in designing and optimizing mechanical systems, improving manufacturing processes, and ensuring compliance with industry standards. Adept at analyzing and solving problems, leading projects from concept to completion, and contributing to the continuous improvement of product quality and performance.

Employment History

Senior Design Engineer at Tesla, Inc., NV

Mar 2023 - Present

- Successfully reduced production costs by 15% through the redesign and optimization of key electric vehicle components, resulting in annual savings of over \$10 million for Tesla.
- Led a team of engineers in the development and implementation of a new battery cooling system that increased the overall efficiency of Tesla electric vehicles by 8%, contributing to a 10% increase in driving range.
- Developed innovative design solutions for the Model Y, which contributed to a 20% reduction in manufacturing time and a 12% increase in production output, meeting critical company targets and boosting revenue.
- Streamlined the design process by implementing advanced simulation tools and methodologies, resulting in a 25% reduction in prototype iterations and accelerating time-to-market for new products by 6 months.

Design Engineer II at Panasonic Energy of North America, NV

Jul 2018 - Jan 2023

- Developed a new battery cell design for Panasonic's electric vehicle lineup, resulting in a 15% increase in energy density and contributing to a 10% improvement in overall vehicle range.
- Successfully managed a team of 5 engineers in the redesign of a battery module cooling system, reducing thermal resistance by 25% and enabling a 30% faster charging time for our products.
- Implemented advanced simulation tools in our design process, leading to a 20% reduction in prototype development time and saving the company over \$500,000 in R&D costs annually.

Certificates

Certified SOLIDWORKS Professional (CSWP)

Mar 2022

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Education

Master of Science in Engineering Design at University of Nevada, Las Vegas

Aug 2014 - May 2018

Relevant Coursework: Advanced Engineering Mathematics, Computer-Aided Design, Finite Element Analysis, Engineering Materials, Design Optimization, Dynamics and Vibrations, Systems Engineering, Machine Design, Robotics, Additive Manufacturing, and Project Management.

Links

[linkedin.com/in/deeannatroka](https://www.linkedin.com/in/deeannatroka)

Skills

AutoCAD

SolidWorks

MATLAB

ANSYS

Python

Revit

LabVIEW

Languages

English

French