

Rickea Meuschke

Entry Level Mechanical Engineer

Profile

Dedicated Entry Level Mechanical Engineer with 1 year of experience in designing and implementing mechanical systems. Proficient in CAD software and project management, with a strong foundation in engineering principles and problem-solving. Quick learner with excellent communication skills, committed to continuous growth and delivering quality solutions within deadlines.

Employment History

Entry Level Mechanical Engineer at Dassault Falcon Jet, AR

May 2023 - Present

- Successfully designed and implemented a 15% more efficient cooling system for Falcon Jet aircraft, leading to a reduction in operational costs and improved cabin comfort for passengers.
- Conducted detailed stress analysis on key aircraft components, resulting in the identification of potential weak points and contributing to a 10% improvement in overall structural integrity.
- Collaborated with a team of engineers to develop and integrate an innovative wing design, increasing fuel efficiency by 8% and reducing overall environmental impact for Dassault Falcon Jet's fleet.

Mechanical Engineer Intern at Bernhard TME, AR

Sep 2022 - Mar 2023

- Assisted in the design and development of a new HVAC system for a commercial building, resulting in a 15% increase in energy efficiency and saving the client approximately \$50,000 in annual energy costs.
- Conducted in-depth research and analysis on the performance of various mechanical components, leading to the identification and implementation of a more cost-effective and efficient alternative that reduced maintenance costs by 20%.
- Collaborated with a team of engineers to successfully complete a major retrofit project for a manufacturing facility, improving overall equipment effectiveness (OEE) by 12% and reducing downtime by 25%.
- Developed and presented a comprehensive training program for junior engineers, increasing their understanding of essential mechanical engineering concepts and leading to a 30% improvement in their problem-solving abilities.

Education

Bachelor of Science in Mechanical Engineering at University of Arkansas, Fayetteville, AR

Sep 2017 - May 2022

Relevant Coursework: Thermodynamics, Fluid Mechanics, Heat Transfer, Mechanics of Materials, Dynamics, Statics, Machine Design, Control Systems, Materials Science, and Mechanical Vibrations.

Certificates

Certified SolidWorks Associate (CSWA)

Sep 2021

Details

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Links

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

Skills

AutoCAD

SolidWorks

MATLAB

Finite Element Analysis (FEA)

Computational Fluid Dynamics (CFD)

LabVIEW

D Printing

Languages

English

Dutch

Hobbies

3D printing and prototyping
Robotics and automation projects
Building and modifying remote-controlled vehicles