

# Jahniece Monck

Mechanical Design  
Engineer

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## Details

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## Profile

Mechanical Design Engineer with 1 year of experience in designing, developing, and testing mechanical systems and components. Proficient in CAD software, analytical problem solving, and project management. Demonstrated ability to collaborate effectively in cross-functional teams and contribute to the successful completion of projects. Adept at optimizing designs for manufacturability, cost efficiency, and performance improvements. Seeking opportunities to further develop skills and contribute to innovative engineering solutions.

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## Employment History

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### Mechanical Design Engineer at Sandia National Laboratories, NM

Apr 2023 - Present

- Led the design and development of a high-precision robotic system for Sandia National Laboratories, resulting in a 25% increase in efficiency and reducing assembly time by 40%.
- Successfully managed a team of engineers in designing and implementing a new cooling system for a high-performance computing facility, leading to a 15% reduction in energy consumption and saving the company \$1.2 million annually.
- Spearheaded the integration of advanced simulation software into the mechanical design process, improving accuracy of predictions by 30% and cutting down on prototype iterations by 50%.
- Developed a patented innovative vibration dampening technology that was implemented in various critical systems at Sandia National Laboratories, leading to a 20% decrease in maintenance costs and extending the equipment lifespan by 10%.

### Associate Mechanical Design Engineer at Los Alamos National Laboratory, NM

Jul 2022 - Feb 2023

- Successfully designed and implemented an innovative cooling system for a high-powered laser, resulting in a 20% increase in overall efficiency and contributing to a \$1.5 million budget savings for the project.
  - Led a team of engineers to develop a novel vibration isolation system for sensitive laboratory equipment, reducing vibration interference by 75% and enhancing the accuracy of experiments conducted at the facility.
  - Co-authored a research paper on advanced materials for use in extreme environments, which was published in a prestigious engineering journal and contributed to the development of new technologies in nuclear safety.
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