Melisha Haniff

Principal Mechanical Engineer

Profile

Principal Mechanical Engineer with a decade of experience in designing, developing, and optimizing mechanical systems for various industries. Adept at leading cross-functional teams, managing large-scale projects, and implementing innovative solutions to complex engineering challenges. Proven track record of improving efficiency, reducing costs, and ensuring compliance with industry standards and regulations. Strong analytical, communication, and problem-solving skills, with a commitment to excellence in engineering and project management.

Employment History

Principal Mechanical Engineer at Lockheed Martin Corporation, NJ

Mar 2023 - Present

- Led the design and development of a critical aircraft subsystem, resulting in a 20% increase in overall system efficiency and contributing to Lockheed Martin securing a $1.2 billion contract with the Department of Defense.
- Managed a team of 15 engineers in the successful completion of a major spacecraft project, delivering it on time and within budget, saving the company $500,000 in potential cost overruns.
- Implemented innovative design solutions for a missile defense system, increasing its accuracy by 30% and leading to the successful interception of 95% of all targets during testing.
- Streamlined manufacturing processes for a key aerospace component, reducing production time by 25% and cutting costs by 10%, which translated to an annual savings of $2 million for the company.

Senior Mechanical Engineer at Johnson & Johnson, NJ

Sep 2019 - Jan 2023

- Led the design and development of a new medical device, resulting in a 20% reduction in production costs and a 15% increase in overall efficiency for the manufacturing facility.
- Managed a cross-functional team of 10 engineers and technicians to implement a new assembly line process, increasing output by 25% and reducing lead time by 30%.
- Developed and executed a comprehensive equipment maintenance program, leading to a 50% reduction in unplanned downtime and a 10% increase in overall equipment effectiveness.
- Implemented a successful root cause analysis program for product failures, resulting in a 40% reduction in warranty claims and a 30% improvement in customer satisfaction ratings.

Mechanical Engineer II at Siemens, NJ

Sep 2013 - Aug 2019

- Successfully led a team of 5 engineers to redesign and optimize a crucial component of Siemens' flagship gas turbine, resulting in a 10% increase in efficiency and annual cost savings of $1.5 million.
- Developed and implemented an innovative predictive maintenance system for industrial equipment, reducing machine downtime by 25% and saving the company over $2 million in maintenance costs within the first year.

Details

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Links

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Skills

- AutoCAD
- SolidWorks
- Finite Element Analysis
- Computational Fluid Dynamics
- MATLAB
- Pro/ENGINEER
- ANSYS

Languages

- English
- Hindi

Hobbies

- Building and flying model airplanes
- Restoring vintage cars
- Woodworking and furniture making