

Malini Ekenstam

Senior Mechanical Design Engineer

Profile

A Senior Mechanical Design Engineer with 5 years of experience in designing and developing innovative mechanical systems and products. Proficient in CAD software, FEA analysis, and project management. Demonstrated strong problem-solving skills, attention to detail, and ability to lead cross-functional teams. Seeking opportunities to leverage expertise in engineering design and project management to drive product development and process improvement.

Employment History

Senior Mechanical Design Engineer at General Dynamics Bath Iron Works, ME

Mar 2023 - Present

- Led the design and development of a critical ship component, resulting in a 15% improvement in overall performance and a 10% reduction in manufacturing costs.
- Successfully managed a team of 12 engineers in the completion of a major ship retrofit project, which was delivered on-time and within budget, saving the company \$1.5 million in potential overruns.
- Developed and implemented innovative design solutions for complex mechanical systems, resulting in a 20% increase in system efficiency and a 25% reduction in maintenance requirements.
- Streamlined the engineering and design process by introducing new software tools and methodologies, increasing productivity by 30% and reducing project lead times by an average of 3 months.

Mechanical Design Engineer II at Texas Instruments, ME

Sep 2018 - Jan 2023

- Led the design and development of a new semiconductor manufacturing equipment, resulting in a 20% increase in production efficiency and a 15% reduction in maintenance costs.
- Successfully managed a cross-functional team of 10 engineers and technicians in the implementation of a \$2M project to upgrade and retrofit existing manufacturing lines, achieving a 25% increase in throughput and a 30% reduction in downtime.
- Developed and implemented a comprehensive preventive maintenance program for critical mechanical systems, leading to a 40% reduction in unplanned equipment failures and a 35% improvement in overall equipment effectiveness (OEE).
- Designed and patented an innovative mechanical component for high-precision positioning systems, which led to a 50% improvement in accuracy and a 10% reduction in manufacturing costs.

Education

Master of Science in Mechanical Engineering at University of Maine, Orono, ME

Sep 2014 - May 2018

Relevant Coursework: Advanced Mechanics of Materials, Finite Element Analysis, Computational Fluid Dynamics, Heat Transfer, Thermodynamics,

Details

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Links

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Skills

AutoCAD

SolidWorks

Finite Element Analysis (FEA)

Computational Fluid Dynamics (CFD)

MATLAB

Pro/ENGINEER

ANSYS

Languages

English

Urdu

Hobbies

- Building and flying model aircraft
- Restoring vintage cars or motorcycles
- 3D printing and prototyping projects