

Amina Khan

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SUMMARY

Dynamic and results-oriented Senior Marine Engineer with over 8 years of experience in marine systems design and environmental compliance. Proven track record in optimizing vessel performance and reducing operational costs through innovative engineering solutions.

EXPERIENCE

Lead Marine Engineer

Jan 2022 - Present

Oceanic Engineering Solutions, Seattle, WA

- Spearheaded the redesign of fuel systems, resulting in a 15% reduction in fuel consumption across the fleet, saving approximately \$500,000 annually.
- Led a cross-functional team to implement a new maintenance schedule, decreasing equipment downtime by 25% and improving overall vessel availability.
- Designed and executed innovative hull modifications that enhanced vessel speed by 10%, directly contributing to improved delivery timelines.

Marine Engineer

Jun 2018 - Dec 2021

Nautical Innovations LLC, Portland, OR

- Developed a predictive maintenance program that reduced repair costs by 30% and extended equipment lifespan by 20%.
- Collaborated with environmental teams to ensure compliance with new regulations, achieving 100% compliance during audits.
- Utilized CAD and FEA software to design advanced marine structures, improving structural integrity and load distribution.

Junior Marine Engineer

Jul 2015 - May 2018

Marine Tech Solutions, San Diego, CA

- Assisted in the design and testing of propulsion systems, contributing to a 12% increase in energy efficiency.
- Conducted performance analysis using MATLAB, generating reports that influenced strategic decisions for fleet optimization.
- Participated in field inspections and vessel trials to ensure adherence to engineering standards and specifications.

EDUCATION

Bachelor of Science in Marine Engineering

May 2018

University of Washington, Seattle, WA • GPA: 3.7

SKILLS

Technical Skills: Fluid Dynamics, Thermodynamics, Structural Analysis, Marine Propulsion Systems

Tools & Frameworks: AutoCAD, ANSYS, MATLAB, SolidWorks