

Nickayla Moc

Marine Engineer

Profile

Marine Engineer with 4 years of experience in the design, construction, maintenance, and repair of marine vessels and their propulsion systems. Skilled in analyzing and solving complex technical problems, ensuring compliance with marine regulations, and optimizing vessel performance. Proficient in using advanced engineering tools and software. Strong teamwork, communication, and project management abilities. Committed to continuous learning and staying updated on industry advancements.

Employment History

Marine Engineer at Oregon Coast Marine, OR

Apr 2023 - Present

- Successfully designed and installed a state-of-the-art ballast water treatment system for a fleet of 10 commercial vessels, resulting in a 95% reduction in the discharge of invasive species and compliance with international regulations.
- Developed and implemented an energy-efficient propulsion system for a newly constructed research vessel, reducing fuel consumption by 30% and saving over \$100,000 annually in operating costs.
- Led a team of engineers in the overhaul and modernization of a 20-year-old marine vessel, extending its service life by 10 years and improving overall performance by 25%.
- Conducted comprehensive structural analysis and inspection of a critical ship component, identifying previously undetected corrosion damage and preventing a potential catastrophic failure, saving the company over \$500,000 in repair costs.

Assistant Marine Engineer at Vigor Marine, OR

Jul 2019 - Feb 2023

- Successfully managed the repair and maintenance of over 150 marine vessels, leading to a 98% on-time completion rate and contributing to a 25% increase in overall company revenue.
- Streamlined the procurement process for marine engineering equipment, resulting in a 20% reduction in lead times and a 15% decrease in overall costs.
- Implemented an innovative preventive maintenance program for marine engines, which led to a 30% reduction in unplanned downtime and a 10% improvement in fuel efficiency for the company's fleet.

Education

Bachelor of Science in Marine Engineering at Oregon State University, Corvallis, OR

Aug 2015 - May 2019

Relevant Coursework: Fluid Mechanics, Thermodynamics, Marine Propulsion Systems, Ship Design and Construction, Marine Electrical and Control Systems, Naval Architecture, Mechanics of Materials,

Details

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Links

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

Skills

CAD/CAM proficiency

Finite Element Analysis

Computational Fluid Dynamics

Propulsion Systems

Vessel Stability Analysis

Marine Electrical Systems

Corrosion Control

Languages

English

Italian

Hobbies

Model ship building

Scuba diving

Amateur radio operation