MD. Rokibul Hasan

Undergraduate Student

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❖ Summary

Motivated and detail-oriented Naval Architecture and Marine Engineering undergraduate at MIST with strong academic performance and hands-on experience from an internship at Khulna Shipyard. Skilled in ship design, structural analysis, and simulation using tools like AutoCAD, Rhino 3D, and ANSYS. Experienced in collaborative projects such as LNG carrier design and collision impact analysis. Strong foundation in FEA, CFD, and machine learning applications in marine engineering. Effective communicator and problem-solver with proven teamwork and leadership capabilities, reinforced through technical projects, publications, and extracurricular involvement.

❖ Experience

Khulna Shipyard Limited — *Khulna, Bangladesh*
Internship Trainee — *May,2025*

- Gained practical experience in machine design and steel construction, contributing to projects that improved safety standards.
- Collaborated in hands-on training sessions, enhancing teamwork and technical expertise in shipbuilding.
- Developed proficiency in handling heavy machinery, assisting in the timely completion of structural repair tasks.

❖ Education

Bachelor of Science | Military Institute of Science and Technology (MIST) — *2022 - Present*
Naval Architecture and Marine Engineering
CGPA: 3.66 (6 Semesters)

Higher Secondary | Satkhira Govt. College — *2020 – 2022*
Science | Bangla Medium
GPA: 5.00

Secondary | Satkhira Govt. High School — *2012 – 2020*
Science | Bangla Medium
GPA: 5.00

❖ Thesis & Projects

1,56,000 cubic meter LNG Carrier Design — *03/2024 –03/2025*
Ship Design Project Course | MIST, Dhaka

- Designed a 156,000 m³ vessel with a 19.5 knots speed, focusing on displacement, hydrostatic analysis, and structural integrity.
- Detailed engineering drawings such as the midship section, shell expansion, and longitudinal views were created, along with a Physical & 3D model to integrate and visualize the design.
- Conducted resistance, power requirements, and stability assessments.

Study of the impact analysis of the forecastle bulwark on the side structure during a ship collision — *Ongoing*
Undergraduate Thesis | MIST, Dhaka

- Energy absorption characteristics of the forecastle bulwark.
- Deformation and failure patterns in both the striking and struck vessels.
- The influence of bulwark geometry,

Arduino Controlled Automatic Fire Fighting Robot — *03/2024 –03/2025*
Marine Electrical and Electronics Lab | MIST, Dhaka

- Designed a firefighting bot that can automatically respond to a fire and water it.
- In a group of five members, I have learnt project management & Problem solving.

❖ SKILLS & ABILITIES

Software Skills

- AutoCAD
- SolidWorks
- Rhino 3D
- Maxsurf
- Grasshopper
- Illustrator
- MATLAB
- ANSYS
- Abaqus
- Star-CCM+
- Microsoft Office
- Photoshop

Technical Skills

- Computer-Aided Design
- Finite Element Analysis
- Computational Fluid Dynamics
- Machine Learning (Basic)
- Programming (C/C++.Python)
- Graphic Design

Soft Skills

- Project Management
- Problem solving
- Communication
- Leadership

❖ CERTIFICATIONS

- Certified Course on Maxsurf and Rhinoceros | NAME, MIST
- Database Programming | Bangladesh Technical Education Board
- Introduction to Computational Fluid Dynamics | BME, MIST
- FEM - Linear, Nonlinear Analysis & Post Processing | Coursera
- Introduction to Ballast Water Management and Compliance Monitoring and Enforcement eLearning Course | IMO
- MATLAB Onramp | MathWorks
- Machine Learning Onramp | MathWorks
- Deep Learning Methods for Engineers | BME, MIST

❖ PUBLICATIONS

Review Paper:

"Advancements in Automation & Parametric Modeling in Ship Design: Review of Current Technologies"

Engineering: Open Access

Dec 3, 2024

❖ ACTIVITIES

Designer | The SAIL Magazine-2022, NAME dept, MIST

- Worked as a co-designer for a departmental publication.

Volunteer | Amraa Bondhu Foundation

- Actively contributed to social initiatives, improving community engagement.

❖ REFERENCE

Lt Col Muhammad Rabiul Islam, PhD, EME
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