AMANULLAH

Karachi, Pakistan | P: +92 3243031107 | amanullahkalwar12@gmail.com | www.linkedin.com/in/amanullahkalwar

EDUCATION

BE NAVAL ARCHITECTURE — Karachi, Pakistan
NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY — June 2025

- **Relevant Coursework:** Basic Naval Architecture, Ship Structure I & II, Ship Resistance, Ship Design and Production, Marine Engineering, Ship Propulsion, Ship Hydrostatics and Stability, Fluid Mechanics, Submarine and Submersible Design, Ship Dynamics, Ship Seakeeping, Ship Maneuvering.
- **Cumulative GPA:** 3.37/4.0

EXPERIENCE

KARACHI PORT TRUST (Engineering Intern) — June-July 2024

- Conducted technical visits to various crafts, analyzing operational efficiency and maintenance practices.
- Assisted teams in evaluating equipment functionality and maintenance needs.
- Observed inspections and repair activities at Manora Workshop, gaining hands-on experience in marine engineering.

KARACHI SHIPYARD (Engineering Intern) — June-July 2024

- Worked together with international organizations towards optimizing ship design and construction process.
- Guided the dynamics and building of ship and standards being followed.
- Enhanced Project management skills.

NUST SOCIETY OF MARITIME ENGINEERS (NSME) — Karachi, Pakistan

Technical Team Lead — 2023-2025

- Lead a team of 10 members in an international ferry design competition.
- Manage ongoing projects, improving team performance through leadership and process enhancements.

Technical Team Member — 2022-2023

- Researched ferry design techniques.
- Gained hands-on experience in software like Rhino and MAXSURF, while understanding fundamental Naval Architecture concepts.

Skills

Technical: Rhino 3D Modelling, PARAMARINE, Auto Cad, MAXSURF (Modeler, Resistance, Stability), Creo Parametric, MATLAB, C++ Programing Language, Microsoft PowerPoint, Microsoft Excel, COMSOL (basic knowledge).

Soft Skills: Team Management, Adoptability, Project Management, Learning Ability, Technical writing, problem solving capability.

Projects

Design Of Unmanned Surface Vehicle for Collection Of Floating Debris (Thesis) — 2025

- Designed an innovative Unmanned Surface Vehicle (USV) to collect floating debris from oceanic environments.
- Developing a sustainable and cost-effective solution to address marine pollution.

Container Ship Design Exercise — 2024

- Performed initial sizing, weight, and space breakdown for a container ship.
- Selected engine and created a balanced design sheet with key characteristics.
- Developed 3D hull form using PARAMARINE and generated line plans.
- Calculated powering, stability, and resistance of the design.
- Created a General Arrangement plan for the container ship.

Self-Balancing Robot — 2023

- Developed a self-balancing robot.
- Focused on advanced balancing algorithms.
- Designed comprehensive control system.
- Engineered mechanical structure for stability and performance.

Resistance Calculation Tool Development — 2023

- Developed a tool on Excel to calculate ship resistance using Holtrop and Fung methods.
- Implemented formulas and algorithms to automate the calculation process.

Language

Mother tongue: Sindhi
Other Language(s): English, Urdu

INTERESTS

TECHNICAL

- CAD Modeling
- Ship Design and Analysis

GENERAL

- Engineering Research and Development
- Learning New Software
- Playing Cricket and Table tennis