



DANNYSHA PUTRI MAHARANI

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Portofolio

SUMMARY

Fresh Graduate of Diploma IV in Ship Design and Construction Engineering from Politeknik Perkapalan Negeri Surabaya with internship experience as a Hull Detailed and Production Design Engineer at KTU Shipyard, Batam. Experienced in preparing 2D technical drawings, assembly block drawings, nesting plates and profiles, and material lists to support ship production and fabrication activities. Familiar with AutoCAD, ZWCAD, AVEVA Marine Drafting, SketchUp, and Fusion 360, with academic project experience in ship design, construction planning, and interior design. Detail-oriented, adaptable, and eager to develop technical skills in shipbuilding and marine engineering projects.

EXPERIENCE - INTERNSHIP

PT KTU SHIPYARD – Batam

Aug 2025 – Dec 2025

Hull Detailed and Production Design Engineer

- Assisted in preparing assembly block drawings for Tugboat and Tank Barge projects using ZWCAD and AVEVA Marine Drafting.
- Assisted in preparing profile nesting drawings to support ship fabrication activities.
- Prepared nesting plate drawings as a basis for CNC cutting processes.
- Assisted in preparing and inputting material lists to support material requirements and production data for nesting activities.
- Supported detailed and production design activities according to project requirements and drawing standards.

Final Project – Interior Design of MPV Series Ship

2026

- Designed an aluminium passenger catamaran with a capacity of 24 passengers and a hybrid solar boat system.
- Prepared Lines Plan, General Arrangement, Frame Section, and Longitudinal Section using AutoCAD.
- Performed basic ship construction calculations and supported the selection of the main engine and electrical system requirements.
- Prepared cutting plan, nesting plate, and assembly sequence for the ship construction process.
- Estimated construction duration and building cost based on the proposed production process.

Academic Project – Aluminium Catamaran Ship Design and Construction

2025

- Redesigned the ship interior layout based on changes to the General Arrangement.
- Prepared interior working drawings using AutoCAD and SketchUp.
- Selected interior materials and prepared preliminary cost estimates.
- Prepared detailed construction drawings for wall lining and ceiling.
- Prepared a Safety Plan as part of the interior design project.

CERTIFICATE COMPETENCY

2026 Ship Hull Design Construction, BNSP

List of Unit Competency : Reading, Interpreting and Applying Engineering Drawings | Applying Ship Rules and Regulations | Performing Simple Beam Construction Force System Calculations | Performing Simple Construction Stress Calculations | Carrying out Calculations, Assessment and Preparing Ship Trim and Stability Reports | Operating the CAD System to Create Hull Construction Key Plan Drawings | Operating the CAD System to Create Yard Plan Hull Construction Drawings | Interacting with Computer Technology | Contributing to the Quality System

2026 Ship Design Interior, BNSP

List of Unit Competency : Reading, Interpreting and Applying Engineering Drawings | Applying Ship Rules and Regulations | 2D Drawing with CAD Systems | Creating 3D Models with CAD Systems | Designing Basic Level Detailed Engineering Drawings | Designing Advanced Detailed Engineering Drawings | Interacting with Computer Technology | Contributing to the Quality System | Coordinating Installation of Furniture Products

EDUCATION

2021 – 2025 POLITEKNIK PERKAPALAN NEGERI SURABAYA

GPA : 3.31 / 4.0

Diploma IV (D-4) Ship Design and Construction Engineering

Relevant Coursework : Ship Design (Linesplan, General Arrangement, Production, Rudder, SternTube), Hull Construction and Structural Drawings, Ship Structure Strength and Analysis, Finite Element Method, Stability and Load Line, Production Drawing (Assembly, Nesting), Management Proyek (AOA, AON, Flow), Material Testing, DT(Tensile, Bending, Hardness)&NDT(UT, Radiography, MT, PT)

Organization :

- 2024-2025 | Deputy Minister of Communications and Information Technology (Student Executive Board)
- 2023 | Executive Chair of Media Training 101

SKILLS

Software Skills | CAD (AutoCAD,ZWCAD) | 3D Modeling : Fusion 360 | Nesting : Aveva Marine | Maxsurf: Modeller, Stability, Resistance | SketchUp | Microsoft : Word, Excel, PPT, Teams

Technical Skills | Drafter | Calculate MTO | Nesting | Design Interior

Soft Skills | Team Collaboration | Communication | Adaptability | Time Management | Public Speaking | Fast Learner

Language Skills | Indonesian (Native) | English