IRSAN ANUGRAH

Technical Superintendent | Owner Surveyor | Ship Machinery & Dry-Docking

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Portfolio: irsan-anugrah.pages.dev/en

Ternate, North Maluku, Indonesia | Open to relocation and international assignment

PROFESSIONAL SUMMARY

Naval architect with 3+ years as the owner's technical representative for a 13-vessel ferry fleet, covering planned maintenance, dry-docking supervision, and classification compliance. BKI Academy-certified Marine Surveyor (2025). Day-to-day scope includes main and auxiliary engine monitoring, Top Overhaul and General Overhaul planning, repair specification and docking budget control, and supervision of repair execution from repair list finalization through final inspection, sea trial, and vessel redelivery. Acts as the interface between owner, shipyard, classification society (BKI), and port authority (KSOP). Seeking a Technical Superintendent or fleet technical role in ship management.

CORE COMPETENCIES

Technical Superintendence | Ship Management | Fleet Maintenance Planning | Planned Maintenance System (PMS) | Dry-Docking Supervision | Docking Specification & Repair List | Owner Surveyor Duties | Classification & Statutory Survey Attendance | Continuous Machinery Survey (CMS) | Main & Auxiliary Engine Maintenance | Top Overhaul / General Overhaul | Shafting, Propeller & Stern Tube Systems | Sea Valve Overhaul | Hull Repair & UT Thickness Measurement | Spare Parts Planning & Procurement | Vendor Evaluation & Negotiation | Maintenance Budget Control & Cost Analysis | Technical Specification Writing | Shipyard & Contractor Supervision | ISM Code | SOLAS | MARPOL | QHSE & ISO 9001 | Technical Reporting & Documentation

PROFESSIONAL EXPERIENCE

Fleet Maintenance Staff / Owner Surveyor | PT ASDP Indonesia Ferry (Persero), Ternate Branch **Jun 2023 - Present**

State-owned ferry operator; 13-vessel fleet under branch technical responsibility.

- Act as Owner Surveyor on vessel dry-docking projects, supervising repair execution end to end — repair list finalization, daily progress monitoring, quality verification, final inspection, and sea trial prior to redelivery.
- Conduct pre-docking joint surveys with shipyard representatives and vessel crew to establish vessel condition, agree the scope of work, and finalize the repair list before contract award.
- Attend classification surveys carried out by BKI surveyors during docking, accompany the surveyor on board, and follow up findings and required corrective work through to close-out.
- Witness and verify machinery work items — sea valve overhaul, propeller and shaft inspection, stern tube works — against approved technical specifications and applicable class requirements before acceptance.
- Witness hull work items including steel plate replacement, ultrasonic (UT) thickness measurement, and anchor chain calibration.
- Plan and justify spare part requirements for machinery overhaul works (Top Overhaul / General Overhaul); built a 160+ line-item procurement database with multi-vendor comparison used as the basis for purchasing decisions.
- Evaluate shipyard and vendor quotations on technical and commercial grounds (minimum three bidders per package), conduct negotiation, and document the selection outcome.
- Control docking and maintenance budgets by reviewing budget requirements, validating shipyard work orders, and comparing planned versus actual repair cost to support cost-optimization decisions.
- Monitor running hours of main and auxiliary engines across the fleet and troubleshoot onboard technical issues to minimize unscheduled downtime.
- Prepare technical documentation for classification surveys — machinery data, survey records, and supporting drawings — and review or update technical drawings for repair works.
- Maintain fleet technical records in SAP, including Internal Order structures for all 13 vessels, plus fleet performance tracking and docking-day recapitulation.
- Coordinate with crew, contractors, shipyards, Biro Klasifikasi Indonesia (BKI), and the Harbourmaster and Port Authority Office (KSOP) to ensure compliance with safety, technical, and regulatory standards.

Structural Engineer | PT Limov Power Structure **Jan 2023 - Jun 2023**

- Reviewed and revised construction drawings, validated scantling compliance, and verified structural integrity against class and engineering standards.
- Performed structural analysis and design adjustment of frontal frame structures in the port area to match actual field conditions.
- Carried out design and stability analysis of floating structures including mooring buoys — weight distribution, buoyancy, and structural safety.
- Conducted welding visual inspection, documented non-conformities, and assisted in preparing work orders and inspection plans.

Intern, Quality Control & Engineering | PT Dok Bahari Nusantara **Feb 2022 - Mar 2022**

- Participated in Magnetic Particle Inspection (MPI) and visual inspection of vessels under repair.
- Supported weight and centre of gravity (COG) calculations of structural components and prepared inspection documentation.

EDUCATION

Bachelor of Engineering, Naval Architecture (S1) | Hasanuddin University, Makassar, Indonesia **2022**
Major: Ship Structure | GPA 3.67 / 4.00

CERTIFICATIONS & TRAINING

- Marine Surveyor Training — BKI Academy, PT Biro Klasifikasi Indonesia (Persero), June 2025. Passed with "Good" result. Competencies: Classification & Survey, Ship Machinery & CMS, Hull Structure, Ship Electrical, Load Line & Stability, ISM Code & MARPOL.
- Internal Auditor ISO 9001:2015 — Quality Management System.
- Basic Coating Inspection Training (4-day short course) — Catur Sekawan Solusindo.

REGULATORY & TECHNICAL KNOWLEDGE

- Classification and statutory: BKI Rules for Machinery Installations (Vol. III), BKI Rules for Piping Systems, SOLAS, MARPOL, ISM Code, IACS Unified Requirements.
- Working familiarity with BKI survey scope and Continuous Machinery Survey (CMS) gained by attending class surveys during docking periods.

TECHNICAL SKILLS

Machinery: Ship machinery maintenance; main and auxiliary engine monitoring; spare part planning (TO/GO); sea valve, shafting and propeller systems; technical troubleshooting and condition assessment

Survey & Docking: Joint survey and inspection; dry-docking project supervision; Owner Surveyor duties; repair list and docking specification; maintenance and docking budgeting

Engineering: Technical drawing review; engineering drawing and P&ID reading; structural and stability analysis; technical reporting

Software: AutoCAD; SolidWorks; Ansys Mechanical; SAP GUI (transaction codes); Microsoft Office (advanced Excel)

Languages: Bahasa Indonesia (native); English (working proficiency — routine use of English-language class rules, technical manuals, and survey documentation)