

# ARIANSYAH

## Geodetic/Hydrographic Surveyor

Central Java, Indonesia | Phone:+6281717708086 | Email:rianarian2010@gmail.com

### SUMMARY

Chief Surveyor and Geodetic Engineer with 5+ years of experience leading teams and operations in marine (hydrographic), topographic, and geophysical surveys for large-scale maritime infrastructure projects. Expert in hydrographic survey operations, data processing with Hypack/EIVA, and material volume calculations. Committed to the highest safety standards, as evidenced by two safety awards. Seeking a role as Party Chief or Senior Surveyor in a leading marine contractor.

### CORE COMPETENCIES

- Survey Project Leadership & Planning,
- Team Management & Training,
- Quantity Survey & Volume Calculation,
- HIRA Development,
- Client & Engineering Liaison,
- FIDIC Contract Knowledge.

### TECHNICAL EXPERTISE

- Multi/Single Beam Echosounder (R2Sonic, Teledyne T20),
- Hydrographic Software (Hypack, EIVA NaviPack, PDS2000),
- Positioning Systems (POS MV, RTK GNSS),
- CAD & Modeling (AutoCAD Civil 3D, SketchUp),
- Geophysical Tools (Sub-bottom Profiler, Magnetometer).

### EXPERIENCE

#### The Indonesian Navy Hydro-Oceanography Center

Hydrographic Surveyor (Nov - Dec 2025)

Project : Marine survey work for pre-eliminary study of giant sea wall construction in Jakarta Bay.

- Conducted hydrographic survey with Multi Beam Echosounder system

#### The Indonesian Navy Hydro-Oceanography Center

Party Chief Surveyor (Oct 2025)

Project : Marine survey work for pre-dredging of shipping channels and turning basins at the Setokok Marine Security Agency base, Batam

- Directed all hydrographic and topographic survey operations at site project.
- Conducted land-topography survey, such as benchmark creation and observation, levelling survey
- Conducted hydrographic survey, Single Beam Echosounder (SBES) with 1:1000 scale
- Conducted and analyzed tidal observation using Valeport Tidemaster
- Drafted final reports and client compliance

#### PT Sonar Lintas Nusantara

QC Surveyor (Aug - Sep 2025)

Project : Marine Survey Works for Pre-Laying High Voltage Sea Cable Line 150kV on Panjang Strait Area – UIP Central Java, PT PLN.

- Quality Checked all survey activity, related to procedure and safety survey operation.
- Quality Checked all acquired dataset, related to Hydrography (MBES & SBES), Oceanography (Currents & Tidal), and Geophysics (magnet & sbp) survey activities
- Analyzed and drafted of acquired data, to determine the installation route of submarine cables

#### PT Rukina Sukses Abadi

Representative Surveyor (July 2025)

Project : Marine survey work for pre-dredging of shipping channels at Tanjung Perak Port, East Java

- Quality Checked all survey activity, related to procedure and safety survey operation.
- Quality Checked all acquired dataset, related to Hydrography (MBES) survey work
- Analyzed for Cut/Fill dredge volume using AutoCAD Civil 3D

#### Juturna Pte Ltd

Chief Surveyor (May 2024 – June 2025)

Project : New Container Terminal Development Phase 1, Sihanoukville Port, Kingdom of Cambodia

- Directed all hydrographic and topographic survey operations related to Vessel Positioning, Dredging, Sand Replacement, and Revetment Operation.
- Assigning for manpower and equipment arrangement for survey activity at site project
- Liaised with engineering team for making method statement for project execution
- Analyzed and prepared monthly Bill of Quantity (BOQ) claims and variation orders, contributing to

the recovery of approximately \$60000 in additional project revenue.

- Utilized AutoCAD Civil 3D for volume calculation and cross section for project report.
- Created and analyzed Hazard Identification and Risk Assessment (HIRA) document standard for Survey Activities on site project

### **PT Rukina Sukses Abadi**

Representative Surveyor (Mar 2024)

Project : Marine survey work for post-dredging of shipping channels at Tanjung Perak Port, East Java

- Quality Checked all survey activity, related to procedure and safety survey operation.
- Quality Checked all acquired dataset, related to Hydrography (MBES) survey work
- Analyzed for Cut/Fill dredge volume using Trimble Terramodel

### **PT Oce Enviro**

Hydrographic Surveyor (Feb 2024)

Project : Marine survey work for pre-eliminary study of jetty construction in Obi Island, Maluku.

- Conducted and analyzed hydrographic survey with Multi Beam Echosounder system

### **PT Rukina Sukses Abadi**

Representative Surveyor (Dec 2023)

Project : Marine survey work for pre-dredging of shipping channels at Tanjung Perak Port, East Java

- Quality Checked all survey activity, related to procedure and safety survey operation.
- Quality Checked all acquired dataset, related to Hydrography (MBES) survey work
- Analyzed for Cut/Fill dredge volume using Trimble Terramodel

### **PT Sonar Lintas Nusantara**

Hydrographic Surveyor (Sep - Oct 2023)

Project : Hydro-Oceanographic and Geophysics survey work on Bintuni Sea Water, West Papua

- Supervised all hydrographic, topographic, and geophysical survey operations, ensuring full compliance with project specifications and timelines.
- Compiled and analyzed daily progress reports and S-curve project tracking documents to monitor performance against baselines and support managerial decision-making.
- Executed comprehensive topographic land surveys, establishing and observing benchmarks, conducting precise leveling, and detailing site areas using RTK GNSS and Total Station.
- Acquired and processed bathymetric data using Single Beam Echosounder (SBES) systems,
- Operated Multi Beam Echosounder (MBES) systems,
- Performed integrated geophysical surveys: magnetic anomaly detection and sub-bottom profiling for stratigraphy
- Collected and analyzed key oceanographic parameters, including tidal data and current/wave dynamics

### **PT Atlas Geosains Indonesia**

Party Chief Surveyor (June - July 2023)

Project : Marine survey work for pre-eliminary study DED on Sofifi, Sausafor, and Weda Port, Indonesia

- Led and managed the full scope of geodetic and hydrographic survey campaigns for Detail Engineering Design (DED) across three key harbor sites (Sausafor, Sofifi, Weda), delivering precise foundational data for critical infrastructure planning.
- Established and calibrated permanent RTK GNSS reference stations and tidal observation stations to ensure centimeter-level positional accuracy and reliable tidal datum for all project phases.
- Executed comprehensive topographic surveys encompassing the establishment of primary benchmarks, precise leveling, closed-polygon control networks, and high-density area detailing to model existing terrain.
- Acquired bathymetric data for nautical charting and design verification using a Single Beam Echosounder and data acquisition. Lead and manage survey activity for Detail Engineering Design (DED) on Sausafor, Sofifi, and Weda Harbour

### **PT Atlas Geosains Indonesia**

Hydrographic Surveyor (March - April 2023)

Project : Marine survey work for pre-dredging of shipping channels at Cilacap Port

- Acquired and processed bathymetric data using Single Beam Echosounder (SBES) systems,

### **PT Timur Bahari**

Surveyor (April 2021 – March 2023)

Project : Backfill and Silt Removal Work at Central Java Power Plant – Indonesia

- Led the on-site survey department, overseeing all land and marine data acquisition to support dredging and reclamation. Developed and maintained detailed survey plans and schedules to ensure project milestones were met.
- Established and maintained all project control networks (RTK GNSS, tidal stations). Performed precise quantity calculations for dredging and backfill, directly informing progress billing and contract verification.
- Contributed technical expertise to key project documents (tenders, BOQ, Method Statements). Authored and implemented the site's Hazard Identification and Risk Assessment (HIRA) for survey activities, enhancing safety standards.

- Initiated and conducted internal technical training to elevate team competency in equipment operation and data processing. Lead and manage survey activity in the site project. Including land and hydro survey

### **PT Timur Bahari**

Assistant Surveyor (August 2019 – March 2021)

Project : Dredging and CW GRP Pipe Installation at Tanjung Jati Power Plant – Indonesia

- Provided critical survey support for the underwater intake pipeline installation at the Tanjung Jati Coal Power Plant, performing accurate stake-out and as-built verification using Total Station and geodetic-grade GPS equipment.
- Gained hands-on experience with industry-standard hydrographic systems, operating both Multi Beam and Single Beam Echosounders for bathymetric mapping.
- Assisted in data acquisition and processing using specialized navigation and survey software suites, including Hypack and HydroPRO.
- Supported senior surveyors in establishing and maintaining precise project control networks, including setting up RTK GNSS base stations and tidal observation stations.

## **EDUCATION**

### **DIPONEGORO UNIVERSITY (2013- 2018)**

Bachelor of Marine Science – GPA 3.2/4.0

## **AWARD**

- *The Most Valueable Safety Contribution for Staff* – Juturna Pte Ltd, Kingdom of Cambodia (May 2025)
- *The Most Valueable Safety Contribution for Staff* – Coal Fired Power Plant Tanjung Jati B Unit 5 & 6 Project - Jebara (Aug 2020)
- *The Most Work Enthusiast Staff* – Coal Fired Power Plant Central Java Unit I&2 Project - Batang (Aug 2021)

## **HOBBY**

- Sketchup 3D design
- Music, Anime, & Manga