



**RAISAL NAZMI KAMIL**

0898-8874-911 | [raisalnazmi@gmail.com](mailto:raisalnazmi@gmail.com) | [linkedin.com/in/raisalkamil/](https://www.linkedin.com/in/raisalkamil/) |

20 January 2004 | Cimahi, West Java

## PROFILE

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**I am an undergraduate fast-track student** on Master–Bachelor program in Geodesy and Geomatics Engineering at Institut Teknologi Bandung, currently in my 8th semester of the Bachelor’s degree and 2nd semester of the Master’s degree. I am a fast learner with integrity, and a persistent and flexible individual with the ability to work effectively both independently and in team environments.

**I have developed a strong interest in Hydrographic Survey and Hydrographic Data Processing**, which motivates me to continuously explore new opportunities to enhance my skills and expand my technical expertise. Through academic projects and organizational experiences, I have gained strong collaboration skills, experience in leading teams as well as working as a team member, and the ability to perform effectively in high-intensity and high-pressure work environments.

## EDUCATION

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**Bandung Institute of Technology** 2022 – Present

- **Master’s Degree in Geodesy and Geomatics Engineering** – 2<sup>nd</sup> semester (**GPA 3.50**)
- **Bachelor’s Degree in Geodesy and Geomatics Engineering** – 8<sup>th</sup> semester (**GPA 3.39**)

## WORK EXPERIENCE

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**Hydrographic Data Processor** | Jan – Feb 2026

**CV Pondok Surveyor**

- Processed Multibeam Echosounder (MBES) data consisting of 155 survey lines covering a total area of approximately 230 hectares in the Pemping, Batam area.
- Performed MBES data processing using HYPACK, from raw data processing to final bathymetric map generation.

**Hydrographic Surveyor & Topographic Surveyor** | Jan 2026

**CV Pondok Surveyor**

- Performed combined topographic and bathymetric surveys of a river area covering approximately 1.7 hectares in Kalimalang River, Karawang.
- Conducted topographic survey of riverbank areas using RTK, collecting approximately 1,000 coordinate points.
- Measured river depth (bathymetric survey) using a Garmin fish finder integrated with RTK, covering a total of 38 survey lines.

**Topographic Surveyor** | July – Aug 2025

**PT Kreasi Handal Selaras**

- Surveyed the topography of a 114-hectare land area for residential development in Rumpin, Bogor.
- Measured three densely forested areas inaccessible to LIDAR using the RTK method with GNSS receivers, collecting a total of 150 coordinate points.
- Collected 11 GCP and ICP coordinates data using GNSS, Built 4 benchmarks and measured them using static methods.

**Team Leader of Topographic Survey** | March 2025

**Practical Field Work Course**

- Led a team of 6 members in conducting topographic and detail surveys using ETS.
- Conducted topographic survey of a 3.2 hectare area of hill tea plantation area.

**Topographic Surveyor** | March 2025

**Bojong Koneng Corporation**

- Measured residential land boundaries using the RTK method, covering a total area of 3 hectares.
- Built 1 benchmark and measured it using GNSS, installed 6 Ground Control Points (GCPs), and assisted the LiDAR pilot in operating the LiDAR drone.

### **Hydrographic Data Processor | Jan – Feb 2025**

#### **Pusat Hidrografi dan Oseanografi TNI AL**

- Processed Side Scan Sonar (SSS) data for seafloor mapping and object detection using SonarWiz software, covering 10 km of survey lines in the waters of Pemping, Singapore Strait.
- Performed quality control and analysis of imagery to identify seafloor characteristics and anomalies along the survey line.

### **Teaching Assistant of Geospatial Expedition | Nov 2024**

#### **Bandung Institute of Technology**

- Accompanied 6 students on an outdoor excursion as part of the Geospatial Expedition course.
- Delivered 3 core modules: Introduction to First Aid for Outdoor Activities, Orienteering, and an Outdoor Survival Demonstration.

### **LiDAR Data Processor | Aug 2024**

#### **PT Geo Mandiri Survei**

- Part of ESDM's Ministry National Project: Building the 550 km Natural Gas Pipeline from Dumai to Sei Mangke in Sumatra.
- Filtered point clouds from LAS file data, built Digital Elevation Models (DEMs) from the filtered point clouds, and generated contours from DEMs along a pipeline route spanning 550 km.

### **Thematical Mapping Surveyor | July 2024**

#### **PT GISACT INNOVATION TECHNOLOGY**

- Acquired 72 qualitative data entries through interviews with MSMEs across Bandung City for thematic mapping purposes by GISACT.

## **ORGANIZATIONAL EXPERIENCES**

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### **Head of Issue Incubation in Tim Kesenatoran IMG-ITB | 2025**

- Lead 14-member team to organize a discussion forum and develop five written analytical studies.

### **Head Project of LOCUS#17 Project IMG-ITB | 2025/2026**

- Lead a team of 5 division heads and 33 staff in producing IMG ITB's internal magazine.

### **Head of the Main Event for the April Graduation Ceremony IMG-ITB | 2024**

- Lead a team of 6 staff to successfully organize and execute a graduation ceremony.

### **Public Relations Officer IMG-ITB | 2024**

- Acted as the primary point of contact between the Geopoint committee and external parties.

## **E-COURSE / TRAINING**

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- **Tide Calculation Prediction using Microsoft Excel** - Global Oceanic Nov 2025
- **Processing Multibeam Echo Sounder (MBES) Data to Determine Seafloor Topography** – Aksara Lab Indonesia Sept 2024
- **Single Beam Echo Sounder (SBES) Data Processing and Accuracy Testing for 3D Modeling and Seafloor Topography** – Aksara Lab Indonesia July 2024
- **Basic Geographic Information System for Industry** – Engineering Academy ID Apr 2024
- **Basic GIS For Mining** – Pitindo Training Mar 2024
- **Drone for Mapping** – Pitindo Training Nov 2023

## **CERTIFICATION**

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- **Certified Pilot Drone (exp: Jan 2028)** – Asosiasi Pilot Drone Indonesia

## **SKILLS**

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- Strong foundation in Geodesy and Geomatics Engineering, including spatial data analysis, mapping, and surveying principles
- Proficient in geospatial and surveying software, including Hypack, ArcGIS/ArcMap, QGIS, Agisoft, Spatix, Global Mapper, AutoCAD, Google Earth Pro, and Trimble Business Center
- Highly proficient in operating surveying equipment such as Electronic Total Stations (ETS), GNSS systems, automatic levels (waterpass), and drones for precise geospatial data collection.
- Able to perform effectively under high pressure and high-intensity workloads, with strong time management and problem-solving skills
- Capable of working independently or collaboratively within a team, and ability to coordinate and lead field or project teams