



RAISAL NAZMI KAMIL

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20 January 2004 | Cimahi, West Java

PROFILE

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

Bandung Institute of Technology

2022 – Present

- Master's Degree in Geodesy and Geomatics Engineering – 2nd semester (GPA 3.50)
- Bachelor's Degree in Geodesy and Geomatics Engineering – 8th semester (GPA 3.39)

WORK EXPERIENCE

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 Peming, 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 Survey

- 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

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

- 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

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

SKILLS

- 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