



RAISAL NAZMI KAMIL

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20 January 2004 | Cimahi, West Java

PROFILE

I am Undergraduate of Bachelor and Master fast-track student program at Geodesy and Geomatics Engineering major in Institut Teknologi Bandung, currently in my 7th semester on Bachelor and my 1st semester on Master. I have developed a strong interest in Hydrography Survey and Geographic Information Systems (GIS), which has motivated me to explore new opportunities to optimize my skills and develop areas of expertise. Through my experiences, I have gained strong collaboration abilities and the capacity to work effectively in team environments.

EDUCATION

Bandung Institute of Technology

2022 – Present

- **Master's Degree in Geodesy and Geomatics Engineering** – 1st semester
- **Bachelor's Degree in Geodesy and Geomatics Engineering** – 7th semester (GPA 3.34)

WORK EXPERIENCE

Land Surveyor – Kreasi Handal Selaras | July – Aug 2025

- 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

Land Surveyor – Bojong Koneng Corporation | March 2025

- 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 system.

Student Internship – Pusat Hidrografi dan Oseanografi TNI AL | Jan – Feb 2025

- 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.
- Gained knowledge of Multibeam Echosounder (MBES) and Side Scan Sonar (SSS), along with their standards based on IHO guidelines.

Teaching Assistant – Geospatial Expedition | Nov 2024

- 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.

Data Processing Operator – PT Geo Mandiri Survei | Aug 2024

- 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.

Freelance Surveyor – GISACT | July 2024

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

ORGANIZATIONAL EXPERIENCES

- Liaison Officer Postgraduate Graduation in Geodesy and Geomatics Engineering 2025
- Mentor in IMG-ITB Cadre Development 2025
- Head of “Issue Incubation” at Tim Kesenatoran IMG-ITB 2025/2026
- Head Project of the Internal Magazine “*LOCUS#17*” by IMG-ITB 2025
- Liaison Officer in the October Bachelor Graduation Ceremony of IMG-ITB 2024
- Issue Incubation Division Staff at Tim Kesenatoran of IMG-ITB 2024/2025
- Community Service Officer at the Geopoint IMG-ITB 2024/2025
- Head of the Main Event for the April Graduation Ceremony of IMG-ITB 2024
- Public Relations Officer at the Geopoint Event of IMG-ITB 2023/2024
- Staff in the Discussion, Studies, and Literacy Department at (IMG-ITB) 2023/2024
- Appreciation Division Staff for the October Graduation Ceremony of IMG-ITB 2023
- Publication Relations Officer in the ITB Music Appreciation Student Activity Unit 2023
- Mentor for New Students during the Orientation Program of the ITB Student Family in 2023
- Accommodation and Transportation Staff for the Flood Mitigation Action Program in Dayeuhkolot by the Geodesy and Geomatics Engineering Department 2023
- Event Organizer Staff at the Music Event by the ITB Music Appreciation Activity Unit 2023

TRAINING

- Tide Calculation Prediction using Microsoft Excel - **Global Oceanic Nov 2025**
- Bathymetric Survey (Survey Preparation, Data Acquisition, Processing, Presentation, Quality Control) – **Global Oceanic Sept 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**
- Aerial Photo Processing for DEM Creation – **Aksara Lab Indonesia June 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**

COMMUNITY SERVICE

- **Batukaras Village Tsunami Ready Community Service – Aug 2025**
 - Managed the quality control of 12 tsunami ready indicators in Batukaras Village.
 - Successfully helped Batukaras village become a tsunami-ready village recognized by BMKG
- **Geopoint Community Service in Ikraland Sumedang – Sept 2024**
 - Built awareness to children about the dangers of natural disasters and provide the mitigation strategies in Ikraland Sumedang
- **Flood Disaster Mitigation in Dayeuhkolot – Sept 2023**
 - Implemented flood disaster mitigation awareness programs for Dayeuhkolot residents and constructed 12 biopore absorption wells
- **River Cleanup in Bandung – Sept 2022**
 - Cleaned the Cikapundung and Citepus River in Bandung

SKILLS

- Understanding of geodetic principles and techniques, including coordinate systems, map projections, and datum transformations
- Basic knowledge of Google Earth Engine, ENVI, Agisoft, QGIS, PostGIS, and ArcGIS, Global Mapper for spatial data analysis and Map Creation
- Proficient in the use of level, total stations, and other surveying instruments for accurate data acquisition and measurement
- Experience in fieldwork, often in challenging environments, demonstrating resilience and adaptability.
- Good teamwork, collaboration, and effective communication with other people