



Hasan Tri Atmojo

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BASIC INFORMATION

Place of Birth : Boyolali, Indonesia
Marital status : Single

OBJECTIVE

A geotechnical engineer with a range of expertise in soil and rock mechanics, motivated to grow within complex slope and underground stability problems. A strong person with knowledge, organizational, management, and multitasking abilities. Having a large experience in collecting geotechnical data and performing rock stability analysis from geotechnical datasets.

EDUCATION

Master of Engineering in Geotechnical Engineering
Institut Teknologi Bandung (GPA 3.81/4.00)

Bandung, Indonesia
August 2019 – May 2021

- Conducted rock mass characterization by analysing the rock mass strength, the rock mass behaviour, and determining the rock classification and mechanism to control the stability.
- Performed analyses of the landslide using empirical and numerical methods. Provided the stability analysis results and engineering recommendations for exam project works for the stabilization.
- Relevant course: Geological hazard mitigation, advanced hydrogeology, rock mechanic, geotechnical modelling, geological avalanche, and remote sensing,

Bachelor of Engineering
Universitas Diponegoro (GPA 3.38/4.00)

Semarang, Indonesia
August 2011 – December 2015

- Research project 3D Modelling of Longshore Bar Deposit in Modern Fluvial Dominated Delta, Case Study Wulan Delta, Demak, Central Java Province
- Relevant Courses: Mineralogy, Structure Geology, Engineering Geology, and Hydrogeology.

HONOR RECEIVED

- Awardee of Jabar Future Leaders Scholarship (West Java Government), Bandung 2019
- Awardee of L Austin Weeks Undergraduate Grant Program (American Association of Petroleum Geologists), 2015
- Awardee of BIDIKMISI Scholarship (Ministry of Research, Education, and Culture), 2011

PUBLICATION

- RMI Rock Mass Classification for Slope Stability using Finite Element Method, *Jurnal Ilmiah MTG, Volume 13. No. 13*, December 2022.
- Rock Slope Stability using Comparative Study of Rock Mass Classification of GSI, RMR, and RMI for Potential Toppling and Wedge Landslides at Cipatat, West Java, *Master's Program Thesis, Institut Teknologi Bandung*, 2021
- Longshore Bar Deposits in a Modern Fluvial Dominated Delta: A Case Study from Wulan Delta, Central Java, Indonesia, *Berita Sedimentologi #36, Paleogene of Eastern Margin of Sundaland (Part 2)*, 2016
- Biogenic Gas Potential as an Alternative Energy Case Study: Penyatan Formation, Sumowono, Semarang, Central Java, *Proceedings The 9th International Conference on Petroleum Geochemistry in The Africa-Asia Region*, 2016
- 3D Modelling of Longshore Bar Deposit in Modern Fluvial Dominated Delta, Case Study Wulan Delta, Demak, Central Java Province, *GEO 2016, Manama – Bahrain*, 2016
- Effect of Hydrothermal Alteration to Physical and Mechanical Properties in Relation with Landslide Type and Geotechnical Engineering Method at XYZ Pit, North Minahasa, *Proceedings HARDROCK UNPAD*, 2015

WORK EXPERIENCES

UPN "Veteran" Yogyakarta, started in July 2022 - Present

Lecturer at Geological Engineering Department, Geotech and Hydrogeology Specialization

The responsibilities include mentoring, education, research activities, and contribution to society. Current research focuses on geotechnical modelling for landslide mitigation, the relationship between fracture frequency and thrust fault, and block flexural toppling in a strike-slip fault system and its volume block of fragmentation, spring discharge mapping, and groundwater quality.

- Geotechnical secondment and consultancy for soil investigation in disposal landslide area in **Bayan Resources**, conducting supervision for geotechnical field assessment for back analysis study.
- **Hydrogeological** mapping and **assessment** for water springs in discharge area, located in Magelang district, Central Java, for Environmental Agency.
- Geotechnical modelling for Lembang fault area and risk assessment with **National Research and Innovation Agency**, Lembang, Bandung, West Java. Conducting geotechnical mapping, data acquisition, and site investigation for rock and soil sampling.
- Geotechnical assessment for back analysis in Deep landslide modelling in Bayat. Performing geotechnical mapping and data acquisition for the rock mass characteristic.
- Geotechnical secondment and consultancy for Cilacap Refinery Gas Station for **RU IV Pertamina Cilacap**, Central Java. Performing factual report, analysis, and geotechnical recommendation for refinery plant and facilities.

PT. GEOMINE INDONESIA, started in June 2021 – June 2022

Geologist & Underground Geotechnical Engineer

- Geotechnical secondment, consultancy, and auditor for underground mining company. Conducted geotechnical acquisition data with a wide range of face mapping and logging of more than 7000 meters in both porphyry and epithermal system. Performing the geotechnical assessment for underground mine fracture model and empirical method of Q-system, RMR, and GSI for **PT. Bumi Suksesindo, Tujuh Bukit Copper and Gold project**.
- Conducted geotechnical data acquisition for Underground Study, geotechnical logging for rock characteristics and structural type, QA/QC for logging data and validation, providing a database for drilling data, geotechnical modelling from datasets into the fracture, RQD, and Q-system models for underground mine design consideration and support recommendation, and developing geotechnical domain for **PT. Cikondang Kancana Prima Epithermal project**.
- Performed KCMI/JORC report for Wetar Project in November 2021 and conducted rock slope stability using *3D Limit Equilibrium Method* in open pit mining for **PT. Batutua Kharisma Permai Copper Project**.

PT. NUR STRAITS ENGINEERING, started in January 2017 - January 2020

Site Engineer & Geotechnical Laboratory Evaluator

Consulting for client company - responsibility for managing the fieldwork project, collecting geotechnical field data, performing QA/QC geotechnical logging data and sampling, performing the weekly and monthly reports for clients, and evaluating geotechnical samples for laboratory testing.

- Conducted geotechnical site investigation in +15 projects for mine design, and infrastructure stability design of oil field and airport.
- Performed factual report and soil investigation of *Pre-FS Mine Design* in Pulau Laut and *Hauling Road* in Buntok, **PAMA Persada Project**.
- Provided geotechnical consultancy, *risk assessment*, and *JSEA* for *geotechnical site investigation* in **Ophir Energy** and **REPSOL Well pad Project**.
- Geotechnical supervision for DED New Yogyakarta Airport and +5 airports, Toll Road, pipeline, bridge, and oil and gas well pad, **ANGKASA PURA I & II, PGN**, and **Jasa Marga Project**.

INDOGEO SOCIAL ENTERPRISE, started in June 2016 - June 2017

Project Leader of GIS

Managed several teams for digitizing geological maps and performing geological maps for oil and gas resources in South-East Asia.

KEY SKILL

Analytical and critical thinking

- Gained abilities to run a large volume of data, analysed trends, and produced a result in thesis research and work experiences.

Problem-solving

- Developed drilling and laboratory testing data from multiple sources to ensure the results are fit for the purpose.

Effective communication

- Possessed well-developed verbal and written client-focused communication skills through work experiences and volunteering.

Technical

- Software: Microsoft Office, Rocscience, Leapfrog, Geostudio, ArcGIS, SNAP

Language

- Bahasa Indonesia
- English