

MUHAMMAD RAFI AL HAWARI

RECENT GEOLOGICAL ENGINEERING GRADUATE | RESOURCE GEOLOGY, GIS AND SUBSURFACE INTERPRETATION

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PROFESSIONAL PROFILE

Recent Geological Engineering graduate with a 3.80/4.00 GPA and source-linked project work in coal and mine geology, systematic geological mapping, structural interpretation, petrography, micropalaeontology, GIS, well-log correlation and three-dimensional geological modelling. Completed a PT Bukit Asam geology and drilling internship with a verified 93.33/100 evaluation and an undergraduate thesis integrating outcrop, core lithofacies, gamma-ray logs, coal quality and seam-scale modelling. Brings transferable field-to-model capability for mineral exploration, oil and gas, geothermal and broader earth-resource teams while keeping training exposure distinct from operating responsibility.

CORE CAPABILITIES

Geological mapping | Structural measurements and stereographic analysis | Outcrop and core lithofacies description | Coal seam and interburden correlation | Gamma-ray and electrofacies interpretation | Petrography and micropalaeontology | GIS and cross-section construction | Three-dimensional geological modelling | Geological data QA/QC | Technical reporting

EDUCATION

Bachelor of Engineering in Geological Engineering - Universitas Sriwijaya

South Sumatra, Indonesia | 2021-2026 | GPA: 3.80/4.00

Degree requirements and undergraduate thesis defence completed. Thesis: electrofacies analysis of coal seams A1-D at Pit N, Tanjung Enim, integrating five unique drillhole/log controls, six named coal seams and nineteen coal-quality samples.

SELECTED TECHNICAL EXPERIENCE

Undergraduate Thesis - Pit N Coal Facies, Electrofacies and 3D Stratigraphic Interpretation

Tanjung Enim, South Sumatra | 2025-2026

- Integrated outcrop and core lithofacies, gamma-ray log motifs, coal-quality data and seam correlations for seams A1, A2, B1, B2, C and D across five unique drillhole/log controls.
- Evaluated nineteen coal-quality samples in stratigraphic context and developed a traceable workflow from source data and seam-boundary control through correlation, structure maps and three-dimensional geological representation.
- Documented sparse-control limitations and separated measured observations from electrofacies and sequence-stratigraphic interpretation.

Geology and Drilling Intern - PT Bukit Asam Tbk

Tanjung Enim, South Sumatra | 28 July-28 August 2025 | Evaluation: 93.33/100 (Grade A)

- Supported borehole-context review, coal and interburden observations, core lithofacies description, coal-quality context, electrofacies review, seam-correlation checks and MineScape geological workflow practice.
- Connected field and subsurface observations to technical reporting while respecting confidentiality and the boundaries of an internship role.

Karangkencana Geological Mapping and Structural Synthesis

Kuningan, West Java | 2024-2025 | 81 km² | 1:25,000 | 85 GPS-controlled stations

- Integrated geomorphology, Halang sandstone-claystone interbeds, carbonate and karst observations, volcanoclastic rocks, petrography, micropalaeontology, structural measurements, geological maps and cross-sections across a 9 km by 9 km survey area.
- Applied stereographic reasoning to folds and mapped deformation while retaining alternative explanations where kinematics, taxonomy or contact geometry required further verification.
- Separated Halang sandstone-claystone interbeds and associated deformation from Kumbang Formation breccia, and treated Lebakwangi limestone/karst observations as a distinct carbonate evidence set.

RESEARCH AND PUBLICATION

Al Hawari, M.R. and Harnani (2026), 'Analisis Elektrofasi Berdasarkan Data Well Logging pada Seam Batubara A1-D di Pit N, Tanjung Enim, Sumatera Selatan', *GeoScienceEd Journal*, 7(1), pp. 661-673. Published 25 February 2026. DOI: [10.29303/goescienceed.v7i1.1741](https://doi.org/10.29303/goescienceed.v7i1.1741).

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GEOLOGICAL ENGINEERING | TECHNICAL CAPABILITY, RESOURCE ALIGNMENT AND LEADERSHIP

RESOURCE-SECTOR ALIGNMENT

Mining and coal - demonstrated: seam and interburden documentation, core/log correlation, coal-quality context, MineScape workflow, field evidence and technical reporting.

Mineral and gold exploration - transferable: systematic mapping, structural geology, petrography, GIS, three-dimensional geological modelling and field-data integration; no unsupported ore-control or resource-estimation responsibility is claimed.

Oil and gas - project and training based: Petrel well, seismic, horizon and fault workflows; well-log/electrofacies interpretation; formation-evaluation exposure and an Advance Well Control course without IADC/IWCF accreditation.

Geothermal - transferable and industry-exposure based: fault/fracture reasoning, geological mapping, subsurface integration, GIS and modelling, supported by Pertamina Geothermal Energy Ulubelu technical-visit exposure.

TECHNICAL SKILLS

Mining and geological modelling: MineScape; Vulcan; Surpac; Micromine; MineSched foundation; coal seam correlation; core/lithofacies documentation; model geometry review.

Subsurface and energy: Petrel; well-log and electrofacies interpretation; seismic display; horizon and fault interpretation; structural-framework review; Origin/OriginPro.

GIS, mapping and field: ArcGIS Pro; QGIS; Global Mapper; Google Earth/KMZ; GPS/GNSS; systematic field mapping; structural measurements; geological maps and cross-sections; UAV/drone basics.

Structural, geotechnical and data: Dips; Slide2; Phase2/RS2 course exposure; Excel; Access; Word; PowerPoint; technical reporting and presentation.

SELECTED DIGITAL AND SUBSURFACE WORKFLOWS

Petrel Subsurface Interpretation Portfolio

Project and training environment

- Built source-linked well, seismic-display, horizon, fault and structural-framework exercises; presented them as project evidence rather than operating-company responsibility.

Mining Software Laboratory

MineScape, Vulcan, Surpac, Micromine and MineSched foundation

- Practised model setup, seam or mineral-body geometry, mine-planning concepts and validation logic while clearly distinguishing course outputs from independent resource-estimation sign-off.

LEADERSHIP AND ORGANISATIONAL EXPERIENCE

Head of Public Relations - SM-IAIGI Universitas Sriwijaya

2023-2024

- Led public-relations coordination and technical communication for a student geoscience organisation, connecting internal teams, participants and external stakeholders.

Organising Committee Chair - Pertamina Technical Visit Programmes

- Coordinated programme planning, host communication, participant execution and documentation for technical industry visits; presented as organisational leadership rather than employment experience.

SELECTED TRAINING AND CERTIFICATES

- PT Bukit Asam internship certificate - issued 5 February 2026; Grade A, 93.33/100.
- Advance Well Control Course - OILGAS.ID, 30 November 2025; course completion only, not IADC or IWCF accreditation.
- ArcGIS Pro Mapping and Mine Potential, 6-8 June 2025; MineScape Long-Term Mine Planning (Coal), 9-11 May 2025; Vulcan Foundation and Mine Design, 20-27 April 2025.
- Surpac Resource and Reserve Modelling (Nickel), 13-16 March 2025; Estimation Methods and Micromine Pro, March 2025.
- Open-Pit Geotechnical, Hydrology and Hydrogeology suite using Phase2, Slide and Dips, February 2025; Drone Safety and Basic Manoeuvres, APDI Certificate 10844-2025.
- Geological Modelling and Resource Estimation (Coal), PITINDO, 23-24 January 2025; Mine Scheduling using Surpac and MineSched (Nickel), 13-14 July 2024.

LANGUAGES, MOBILITY AND PORTFOLIO

Languages: Bahasa Indonesia - native; English - professional working proficiency.

Mobility: Indonesian SIM A and SIM C; manual-transmission driving capability; open to field, site, roster, rotation and office assignments.

Portfolio: Source-linked records covering the Pit N thesis, PT Bukit Asam internship, Karangkencana mapping, Petrel and mining-software workflows, publication evidence and certificates. Academic and professional references are available on request.