

EDWIN GYASI OWUSU

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PROFILE

Geological Engineering student with strong interest in mining, geotechnical engineering and sustainable resource development. Focused on building practical and analytical skills through hands-on training, leadership roles and continuous learning to support environmentally responsible engineering solutions.

EDUCATION

BSc. Geological Engineering

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

Expected September 2026

W.A.S.S.C.E (General Science)

Tamale Senior High School, Ghana

September 2019 – September 2022

WORK EXPERIENCE

Intern, Fragilda Construction Company Limited

August 2024 – October 2024

- Conducted an energy efficiency audit for the company, analysing energy consumption data and presented actionable solutions to management, contributing to reduced operational costs and improved sustainability.

Intern, Council of Scientific and Industrial Research – Building and Road Research Institute (CSIR-BRRI)

September 2025

- Conducted field tests and collected both disturbed and undisturbed soil samples, which enabled assessment of subsurface strength conditions using N-values.
- Performed laboratory tests on recovered samples and interpreted the results to understand soil behavior, consistency, and bearing capacity characteristics.
- Prepared a geotechnical report by using SPT results and laboratory data to recommend suitable foundation types.

LEADERSHIP EXPERIENCE

Public Relations Officer (PRO) - Australasian Institute of Mining and Metallurgy (AUSIMM-Tarkwa)

June 2025 – Present

- Spearheading strategic communication and student engagement initiatives.
- Managing public relation campaigns for Webinars and Conferences.

Chair, Editorial Committee - Geological Engineering Students Society (GESS), KNUST

October 2024 – September 2025

- Initiated and led a Monthly Digital Article series to educate students on professional pathways as Geological Engineering Students.
- Supervised a committee of writers and designers to maintain content quality and consistency.
- Designed promotional flyers which helped increase departmental events visibility.

PROJECTS/RESEARCH EXPERIENCE

Member, Technical Paper & Research Committee, Australasian Institute of Mining and Metallurgy (AUSIMM-Tarkwa)

- Conduct collaborative research on key mining and related topics, contributing to technical writing and peer-reviewed paper development.

Field Mapping – Bosomtwe District, Ashanti Region

- Conducted geological mapping and data collection in the Bosomtwe District, applying GIS software to produce detailed geological maps.

Engineering In Society, GESS-KNUST

- Participated in a four-month activity of identifying prevailing problems in the field of geology in communities and finding lasting solutions to them.

ACHIEVEMENTS/AWARDS

Completion of the Energy Efficiency Track (PartnerAfrika-Projekt KNUST)	August, 2024	KNUST
AI Essentials Certificate	7 th July, 2024	Alx Africa
Certificate of Competency: Occupational Health and Safety Management Systems (HSE Level 1)	28 th August, 2024	Professional Pathfinders Club

PROFESSIONAL TRAINING/ CERTIFICATION

Participant, Geochemical Fingerprinting in Exploration: Tracing the path to ore deposit.	23rd November, 2025	AusIMM Tarkwa Students Chapter
Participant, Optimizing energy efficiency in Comminution: Advances, challenges and future directions.	22nd November, 2025	AusIMM Tarkwa Students Chapter
Attendee, navigating operational hurdles in tailings management: Implementing challenges for thickened tailings and paste backfill in mining operations.	9th November, 2025	AusIMM Tarkwa Students Chapter
Completed an AI Career Essentials Program	4th July, 2024	Alx Africa
Participated in a Seminar Themed-The Role of the Geological Engineer in the Energy Industry.	22nd March, 2024	Geological Engineering Students Society-KNUST
Participant, Ensuring the safety of underground mine excavations- The Role of the Geological Engineer.	17th March, 2023	Geological Engineering Students Society-KNUST

SKILLS AND ABILITIES

Geological & Geotechnical

- Geotechnical site investigation and data interpretation.
- Soil Classification and basic foundation assessment.
- Engineering geology field observations and reporting

GIS & Data

- Proficient in the use of MapInfo, QGIS and ArcGIS for mapping and data visualization.
- Building core competencies in data analytics using Python and SQL

Geological & Geotechnical

- Technical report writing and interpretation of laboratory and field data using Microsoft Office Word.
- Soil Microsoft Excel for data organization and analysis.

- Visual communication using Adobe Photoshop and Canva for technical and outreach materials.

REFEREES

Name: Mr. Frank Ohene Amoah (C.E.O Fragilda Construction Company Limited)

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