

OLIVIA AMA DEDE MODEY

Amasaman, Greater Accra Region, Ghana.

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PERSONAL PROFILE

As a dynamic, resourceful, and goal-oriented student, I possess a solid foundation in both theoretical knowledge and practical application. I am enthusiastic about the prospect of contributing to innovative projects that tackle real-world challenges. My dedication to lifelong learning and collaborative work empowers me to thrive in diverse teams, driving progress in the realm of sustainable engineering practices.

EDUCATION

Bachelor of Science in Geological Engineering

University of Mines and Technology (UMaT), Tarkwa, Ghana

January, 2022

Expected Graduation:

November, 2025

Current CWA:

82 / 100

WASSCE Certificate

Forces Senior High Technical School, Burma Camp, Ghana

General Science

September, 2018 – October, 2021

Personal Strengths: Excellent communication, Leadership and Team Player, Critical thinking, Interpersonal relationship skills, Organizational skills, Time Management.

WORK EXPERIENCE

Geological Engineering Intern, AngloGold Ashanti, Obuasi Mine, Ghana

November, 2024

- Gained exposure to creating 3D geological models using software such as Leapfrog and Studio RM through observational learning.
- Imported and validated drill hole data to ensure accuracy for geological and resource modelling.
- Participated in geotechnical investigations, including rock mass stability analysis and support system installation using shotcrete, cable bolts, and split sets.

Intern Analyst, Envaserv Research Consult, Sowutuom

October, 2024

- Conducted chemical analyses on fertilizer samples to determine their chemical composition
- Analysed the chemical composition of solid and liquid wastes of mining, petroleum, water processing and manufacturing industries.
- Prepared reports from analyses performed including uncertainty reports.

Intern Geologist, Rhema Mining Company Limited, Axim

May, 2024

- Conducted geological mapping of mining areas to identify rock formations, mineral deposits, and structural features.
- Assisted in mine planning activities, including pit design and mine development planning.
- Prepared technical reports, presentations, and maps summarizing findings from fieldwork, data analysis, and investigations.

Intern, University of Mines and Technology Petrology Lab

May, 2024

- Studied the mineral composition, texture, and structure of rocks.
- Prepared thin sections for microscopic petrographic studies of rock samples.

Intern, AESL Geotechnical Lab, Weija

October, 2023- November, 2023

- Participated in field surveys, site investigations, and geotechnical assessments for infrastructure projects.
- Assisted in geotechnical instrumentation installation, monitoring, and data analysis.
- Contributed to geotechnical design calculations, slope stability analysis, and foundation investigations.

Intern, University of Mines and Technology Geotechnical Lab,

April, 2023

- Conducted soil testing, rock analysis, and geotechnical investigations under the guidance of experienced professionals.
- Assisted in data collection, analysis, and reporting for various geotechnical projects.
- Developed skills in laboratory testing procedures, data interpretation, and report writing.

PROFESSIONAL DEVELOPMENT

Power Learn Project Academy – Software Development Scholarship Recipient

Feb 2025 – Present

- Awarded a competitive scholarship for intensive training in software development, covering Python, Dart with Flutter, web development, blockchain, and database management.

Young African Leaders Initiative (YALI) Cohort 51 – Civic Leadership Training

Oct 2024 – Present

- Completed a three-month intensive program focused on leadership, ethics, accountability, and contemporary African issues.
- Developed expertise in poster pitching and public speaking, enhancing communication and presentation skills.
- Led a team in delivering a grand pitch titled "*Bridging the Digital Divide: A Youth-Centred Solution for Education in Africa.*"

SEMINARS & CONFERENCES

- AusIMM Tarkwa Chapter 10th Anniversary Conference *March 2025*
- Success Africa Summit 2025, UMaT *Feb 2025*
- Building a Successful Professional Career in a Changing Job Market *Feb 2025*
 - Part of the AusIMM 10th Anniversary Celebration.
- Modelling the Unseen: Unlocking Geotechnical Insights with 3D Finite Element Analysis *Aug 2024*
 - Organized by the UMaT Geological Engineering Department in collaboration with Rocscience.
- Enhancing Tailings Storage Facilities through Quantitative Risk Assessment and Risk-Informed Design *May2024*
 - Organized by Gold Fields Ghana Limited, Tarkwa.

VOLUNTEER EXPERIENCE

WAAW Foundation UMaT Chapter-

2024 – Present

- Participate in running University to secondary and primary schools STEM outreach programs to increase the pipeline of African women in STEM related disciplines and works

Young African Leaders Initiative (YALI) Cohort 51

2024 – Present

- Conduct outreach programs in primary and senior high schools, mentoring students on leadership and career growth.
- Encourage young girls to pursue STEM and leadership roles through motivational talks and interactive sessions.

PROFESSIONAL MEMBERSHIP/ASSOCIATIONS

- Australasian Institute of Mining and Metallurgy (AusIMM)
- International Medical Geologists Association
- Society of Exploration Geophysicists (SEG) UMaT Chapter
- Women in Engineering (WInE) UMaT
- Association of Drilling and Geological Engineering Students (ADGES-UMaT)
- Economic Literacy and Empowerment Initiative

PROJECTS

- University Final Year Project (2025): Tailings Dam Stability Analysis Using Numerical Modelling at Gold Fields Ghana Limited, Tarkwa
- Senior High Schools Renewable Energy Challenge (March 2021): Designed solar-powered dryer to enable farmers dry food under safe, energy-efficient conditions

REFERENCES

- Augustine Boachie (Chief Geologist, Core Management, AngloGold Ashanti, Ghana): aboachie@aga.gold
- Nicholas Opata (Laboratory Manager, Envaserv Research Consult, Sowutuom, Ghana.): nicholasopata@gmail.com
- Dr Mawuko Luke Yaw Ankah (Academic Supervisor): mlyankah@umat.edu.gh
- Baba Adongo (YALI Cohort 51 Coach): baba.adongo@gmail.com