Emmanuel Abebresse

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Career Summary

- Dynamic and creative Land Surveyor and GIS Professional passionate about contributing innovative ideas and analytical insight to advance surveying and geospatial solutions.
- Extensive experience managing complex surveying and geospatial projects across diverse environments.
- Proficient in applying modern survey techniques and GIS solutions to deliver precise, data-driven outcomes.

Experience

Asst. Geomatic Engineer - Ghana Lands Commission - Ghana (08/2021 – 08/2025)

GIS Manager - Plan Preparation Unit - CAPC (1/ 2025 - 08/2025)
- Create and manage GIS plugins (ArcGIS and QGIS) used by Unit staff to improve productivity.
- . Overseeing and managing the completion of daily tasks by Unit staff
- Produce cadastral plans for Ghana Bankers Association for dispute resolution and mortgages.

GIS Specialist - GIS/Special Projects Unit. (08/2021 - 12/2024)

- Conducted field surveys and produced cadastral plans for 40 concessions acquired by Newmont Mining using industry standard GIS tools.
- Led the 2023 Akosombo spillage catchment analysis by applying remote sensing and GIS techniques to model water flow, identify accumulation zones, and generate analytical maps for decision making.
- Performed change detection assessments on polluted lakes and rivers impacted by illegal mining, analysing multiple years satellite imagery to monitor environmental degradation.

Freelance GIS Specialist *(Remote)* — DC Maps, Tennessee - USA (02/2020 – 07-2021)

- Edited and digitised pre-prepared utility maps to ensure accuracy and alignment with fibre routing requirements.
- Collaborated with the GIS team to develop a StoryMap that supported stakeholders in visualising fibre cable routes and associated assets.
- Designed and implemented custom symbologies in ArcMap for effective mapping and presentation of company assets.

Land Surveyor/GIS Specialist — Ghana Water Company Limited (09/2017 – 12/2018)

- Prepared detailed slope analysis reports from topographic surveys, incorporating terrain evaluation, charts, drawings, and survey notes to support water distribution project planning.
- Assisted the GIS Officer in processing GPS acquired spatial data for customer boundary demarcation into district, zone, and sub-zone maps using ArcGIS.
- Contributed to increased customer revenue through involvement in the rollout of the company's first electronic billing application through GIS.

Cartographer *(Intern)* – Electricity Company of Ghana (05/2016 – 09/2016)

- Assisted in land survey operations and coordinated the assembly of company assets like transformers, meters etc, across districts, improving asset mapping for field engineers.
- Developed CAD maps for newly acquired meters and updated all existing asset maps, enhancing data accuracy for departmental project planning.
- Interpreted drawing mark-ups and executed 10+ engineering revision updates, ensuring accurate implementation of design changes and reducing rework time.

Education

UNIVERSITY OF PORTSMOUTH - United Kingdom

Master of Science Geographic Information Systems (09/2025 - present)
Course study in Applied Remote Sensing and GIS Programming.

KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY - Ghana

Bachelor of Science Geomatic Engineering (09/2012 - 07/2017)
Course study on Land Survey and Geographic Information Systems.

Skills

- Proficient in Python for data analysis, automation, and geospatial processing.
- Skilled in SQL for database management and data querying.
- Advanced user of Microsoft Excel for data organization, analysis, and reporting.
- Currently learning data science techniques, including statistical modeling and predictive analytics, to enhance geospatial decision making.