

# EMMANUEL ABEBRESSE

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## PROFESSIONAL PROFILE

A GIS Specialist with 6+ years experience in geospatial database management, geospatial analysis and land survey. Proven ability to maintain and enhance GIS databases, design map products, and perform terrain, and geographic statistics analysis. Adept at translating complex geospatial data into clear visual outputs for business and stakeholder decision-making.

## KEY SKILLS

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Geospatial Database Management • GIS Webmap Design • Spatial & Proximity Analysis • Digital Terrain Analysis • Geocoding & Map Production • ArcGIS Pro & QGIS • Python - SQL - Excel

## PROFESSIONAL EXPERIENCE

### GIS Manager – Plan Preparation Unit - Ghana Lands Commission (CAPC) *Jan 2025 – Aug 2025*

- Managed and maintained geospatial databases for 30+ land-use and planning projects, ensuring data integrity and currency by adding new parcels, correcting errors, and updating maps.
- Developed GIS tools and plugins to automate spatial workflows, improving team productivity by 30% and accelerating turnaround on map and analysis requests.
- Produced cadastral and land-use maps integrating survey, satellite imagery, and census data to support property development and planning decisions.

### GIS Specialist – Special Projects Unit - Ghana Lands Commission *Aug 2021 – Dec 2024*

- Maintained and enhanced GIS/portfolio database for 40+ land concessions, adding new sites, updating spatial attributes, and correcting geometric errors to support resource management.
- Performed DEM terrain analysis and proximity analysis to identify high-risk flood zones (Akosombo, 2023), directly informing infrastructure mitigation planning.
- Gathered and integrated spatial data from multiple sources (satellite imagery, existing maps, census data) to develop geographic statistics and produce technical reports for government decision-making.
- Geocoded addresses and produced visually compelling maps to communicate complex spatial relationships to non-technical stakeholders.
- Prepared metadata and spatial documentation for all GIS outputs, ensuring data quality and traceability across projects.

### Freelance GIS Specialist (Remote) - DC Maps, USA *Feb 2020 – Jul 2021*

- Digitised and validated utility network data against multiple source layers, improving spatial accuracy by 20% and enhancing database reliability for infrastructure planning.
- Designed and developed GIS StoryMaps and interactive visualisations, responding to client map requests and transforming complex datasets into accessible, decision-ready outputs.

### Land Surveyor / GIS Specialist - Ghana Water Company Ltd *Sep 2017 – Dec 2018*

- Conducted DEM-based terrain and slope analysis to support water infrastructure planning, integrating survey data into GIS databases for operational and planning use.
- Contributed to the rollout of a GIS-enabled billing system, applying geocoding and spatial data management to improve operational efficiency.

## EDUCATION

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**MSc Geographic Information Systems** *University of Portsmouth, UK* *2025 – Present*

**BSc Geomatic Engineering** *Kwame Nkrumah University of Science & Technology, Ghana - 2017*