

ALFRED AMBOKA

GEOMATIC ENGINEERING AND GIS

Professional Summary

A geospatial engineering and GIS specialist with over one year of experience. My Expertise encompasses GIS, land surveying, remote sensing, photogrammetry, programming, Machine learning, and spatial modeling. I am skilled at collecting, managing, and processing large geospatial datasets to create detailed analyses. I am results-driven, self-motivated, and curious to stay updated on the latest technologies like location intelligence. I embrace teamwork, and a commitment to continuous skills development to maximize my expertise in utilizing geospatial technologies to deliver innovative solutions.

Contacts

+254 746 34 26 79

amboxan@gmail.com

P.O BOX 62000, 00200,
NAIROBI, KENYA.

GitHub: [alfredamboka](#)

EXPERIENCE

GIS Specialist I Freelance

Jan 2022 – Present

- Communicated complex geospatial insights through interactive web dashboards.
- Delivered 10+ consulting projects spanning spatial analysis in yield estimation, predictive analytics, suitability modeling, machine learning, water productivity, and more.
- Processed and analyzed maize and wheat crop-specific productivity using open-source GIS tools and resources.
- Research and authored reports on location analytics about climate action, carbon sequestration, and above-ground biomass.

GIS Specialist I Attachee

Jan 2022 - April 2022

*Vihiga GTS Lab | P.O BOX 344-50300,
Maragoli.*

- Led field data collection operations utilizing GPS units and drones.
- Standardized processes to update surveyed data into SQL databases
- Digitized over 20 analog maps and associated tabular data to build an authoritative spatial dataset.
- Automated the geocoding of 500+ addresses and parcels through Python scripting
- Participated in workshops to catalyze GIS know-how across the county departments

Land Surveyor I Attachee

Jan 2023 - April 2023

Survey of Kenya / Wundanyi

- Executed field surveying operations utilizing RTK, GPS, and total stations.
- Produced accurate large-scale cadastral maps depicting property boundaries.
- Involved in resolving complex legal boundary disputes through extensive deed research and onsite evidence analysis.
- Performed field data collection.
- Build scripts to automate data collection and preprocessing from existing data cubes like GEE, and other remote services using APIs.

EDUCATION

BSc. Geomatic Engineering and GIS

Aug 2018 – Dec 2023

Jomo Kenyatta University of
Agriculture and Technology (JKUAT)

Address: P.O BOX 62000-00100, Nairobi.

Kenya Certificate of Secondary Education (KCSE)

Feb 2014 – Nov 2017

Ekwanda Secondary Schools

Address: P.O BOX 285-40105, Maseno.

PROFESSIONAL SKILLS

- Geospatial information systems (GIS)
- Remote Sensing
- Photogrammetry
- Engineering survey
- Database (NoSQL & SQL)
- CAD/CAM/Engineering design
- Spatial Modelling
- Machine learning (Python)
- App/web development.
- Cadastral surveying.
- Data collection and engineering
- Project management
- Statistical Analysis

PERSONAL SKILLS

- Communication skills
- Problem-Solving
- Adaptive Learner
- Intellectually Curious
- Team work.

ACHIEVEMENTS

- JKUAT - KeHMIS Hackathon award-winning group on providing health solutions for patient appointment keeping. (2022)
- Completed 3+ crop specific 5+ on climate action Research and more.

REFEREES

Provided on request