

# EGBE CHIGOZIE MICHAEL

Remote | Open to travel

+2347059916741 | [egbechigoziemichael@gmail.com](mailto:egbechigoziemichael@gmail.com) | [Egbe Chigozie Michael](#)

[GitHub-Michael](#) | [My Portfolio](#)

## PROFESIONAL SUMMARY

Experienced Geospatial Analyst with expertise in GIS, remote sensing, and data analysis, focusing on environmental monitoring and land use planning. Successfully applied geospatial tools to deliver insights for strategic decision-making in environmental contexts, organizational strategy, digital transformation, and community engagement. Skilled in using Google Earth Engine, ArcGIS, and Python to support environmental projects. Eager to leverage geospatial expertise to contribute to environmental science initiatives.

## WORK HISTORY

### Comparative Mineral Mapping

Jun 2025 - Present

4 Heavy mineral (Contract – ASTER vs. Hyperion, ENVI)

Bengladesh

- Processed ASTER (multispectral) and Hyperion (hyperspectral) imagery for mineral exploration.
- Applied band ratios, PCA/MNF, spectral angle mapping, and linear spectral unmixing to detect and quantify ilmenite, garnet, zircon, and monazite.
- Produced prospectivity and mineral distribution maps with ROI-based abundance estimates.

### Nnamdi Azikiwe University

Feb 2025 - May 2025

GIS & Data Analyst (Contract – Flood Risk Analysis)

Awka, Anambra State

- Conducted spatial and statistical analysis on flood-prone zones in Anambra State using remote sensing and GIS tools.
- Processed satellite imagery, rainfall data, and elevation models to map flood vulnerability.
- Delivered comprehensive flood risk maps and technical reports to support urban planning and disaster management.
- Utilized tools such as ArcGIS Pro, QGIS, Sentinel-2 imagery, SRTM DEM, and Python (geopandas, rasterio) to enhance data analysis and visualization

### Momentum Global Surveys Ltd

May 2022 - Mar 2025

GIS / Remote Sensing Analyst

Enugu, Nigeria

- Analyzed satellite imagery for thematic mapping using ArcGIS & QGIS, enhancing the accuracy of land use classification
- Developed geospatial models for urban planning and environmental risk assessment.
- Designed and managed geospatial databases using field and remotely sensed data.
- Collaborated with field teams and processed GNSS data for spatial accuracy.
- Delivered client presentations and geospatial reports with high-quality visuals.

### Academic Research Projects

Sep 2024 - Nov 2024

Data Analyst (Contract)

Enugu, Nigeria

- Cleaned large public health datasets and created dashboards using Power BI, enhancing data accessibility for stakeholders
- Conducted spatial disease mapping for epidemiological insights.
- Contributed to academic outputs including infographics and policy briefs.

### Devo Tech

Dec 2023 - Mar 2024

Data Analyst (Contract)

Enugu, Nigeria

- Built and normalized datasets for ML models integrating spatial features.
- Developed visual dashboards for community-based survey insights.
- Coordinated with app developers to optimize geospatial data backend.

### Vee Geomatics

Jan 2022 - Dec 2022

Surveying Intern / Field Technician

Enugu, Nigeria

- Participated in cadastral and topographic surveys using total stations & GNSS.
- Processed field data into contour maps and layout plans.
- Supported mapping for public and private infrastructure projects.

### NGO Outreach Africa

Feb 2019 - Dec 2020

HR & Administrative Assistant (Part-Time)

Lagos, Nigeria

- Supported recruitment, onboarding, and file management for 100+ field volunteers.
- Assisted in creating monthly HR reports and workforce analytics.
- Coordinated training workshops and employee wellness programs.

## EDUCATION

### Enugu State University (ESUT)

2024

B.Sc., Surveying and Geoinformatics

- **Achievements:** Best Departmental President (NISGS ESUT) | 2023–2024, Overall Best Student Survey Technician | 2019–2024  
Best Student Tutor | 2020–2023

## SKILLS

- Geospatial Tools:** ArcGIS, QGIS, AutoCAD, Civil, ENVI, OpenCV, OpenStack, etc.
- Programming & Tech:** Spatial Data Modeling, 3D, ERDAS Imagine, GEE Remote Sensing, Photogrammetry
- Data Analytics:** Power BI, Tableau, Microsoft Office, Data Cleaning & Visualization
- Soft Skills:** Communication, Problem-solving, Leadership, Collaboration, Time Management
- Surveying:** GNSS, Total Station, Topographic & Cadastral Surveying
- Languages:** English (Fluent)

## CERTIFICATIONS

- NASA: Mosquito Habitat Mapping | 2024
- IBM: Introduction to Data Science | 2023
- IBM: What is Data Science? | 2023
- University of Toronto: Geospatial Analysis in Satellite Imagery | 2023

## SELECTED PROJECTS

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### Land Use & Land Cover Mapping (1990–2023)

- Classified Landsat imagery to assess changes.

### Flood Modeling using DEM & Satellite Imagery

- Conducted topographic analysis.

### Automatic Extraction of Point Clouds from UAV Images

- Applied photogrammetry techniques.

### Hotel Point Mapping in Enugu Metropolis

- Designed interactive GIS maps for tourism.

*Enugu Metropolis*

## VOLUNTEER & LEADERSHIP EXPERIENCE

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### Unique Mappers Team (ESUT)

**2024 - Present**

#### *Team Lead*

- Team Lead – Unique Mappers Team (ESUT)

### Junior Survey Technician & GIS Enthusiasts

**2023 - Present**

#### *Mentor*

- Mentor - Junior Survey Technician & GIS Enthusiasts

### NISGS, ESUT Chapter

**2023 - 2024**

#### *President*

- President – NISGS, ESUT Chapter

### OpenStreetMap Mapping Community

**2023 - Present**

#### *Volunteer*

- Volunteer – OpenStreetMap Mapping Community

### Survey Field Practical Sessions (ESUT)

**2023**

#### *Organizer*

- Organizer - Survey Field Practical Sessions (ESUT)

### NISGS National

**2022 - 2023**

#### *Assistant Secretary*

- Assistant Secretary – NISGS National

## AWARD & HONOR

- Best Departmental President (NISGS ESUT) | 2023–2024
- Overall Best Student Survey Technician | 2019-2024
- Best Student Tutor | 2020-2023