Daisy Mboya

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🌐 **Website:** https://mboyadaisy.github.io/Daisy-Mboya-Personal-Portfolio/

📍 **Home:** British Columbia (Canada)

ABOUT ME

I am a geospatial data analyst with a strong background in GIS, remote sensing, and data analytics. My experience includes working with spatial data for urban planning, environmental monitoring, and land use analysis. I enjoy using tools like ArcGIS, QGIS, FME, Google Earth Engine, and Python (ArcPy) to process and visualize geospatial data, automate workflows, and develop interactive dashboards. With a keen interest in data-driven decision-making, I am always looking for innovative ways to apply geospatial technologies to real-world challenges. I am detail-oriented, analytical, and passionate about translating complex spatial data into meaningful insights.

WORK EXPERIENCE

Geospatial Officer
Rural Electrification and Renewable Energy Corporation [01/04/2022 – Current]

City: Nairobi | **Country:** Kenya

- Developed high-resolution geospatial maps using ArcGIS and satellite imagery from 2023-2024, optimizing site selection for solar power plants and transformers, leading to the electrification of over 15,000 households and a 20% increase in energy access across rural Kenya.
- Led the integration of GIS data into a centralized database from 2022–2024, reducing data retrieval times by 30%, saving over 500 hours annually, and accelerating the completion of over 300 infrastructure projects.
- Directed the digitization of geographic features from hard-copy maps and satellite imagery from 2022-2024, improving planning accuracy by 25% and shortening project lead times by 10%, which resulted in a 15% increase in successful energy connections for rural communities.

Geospatial Officer
Ministry of Lands and Physical Planning [01/01/2020 – 31/03/2022]

City: Nairobi | **Country:** Kenya

- Designed and developed interactive digital maps and web platforms that improved land management accessibility and data visibility, increasing public engagement with online land data, which resulted in faster data retrieval and significant time savings for government staff.
- Integrated topographical and external datasets, which improved mapping accuracy, supported over 50 land development projects, and facilitated more efficient planning processes for land registration and urban planning initiatives.
- Collaborated with data engineers, statisticians, and geospatial experts to create two dynamic geospatial databases and interactive dashboards, leading to improved data flow, faster decision-making, and better cross-departmental coordination.

Intern
National Housing Corporation [01/04/2019 – 31/12/2019]

City: Nairobi | **Country:** Kenya

- Executed topographic and cadastral surveys, maintaining accurate records that supported property assessments for more than 50 housing projects, facilitating timely land evaluations and helping complete assessments for over 100 properties.
- Implemented advanced surveying techniques, resulting in precise data collection that improved the accuracy of land measurements, directly impacting the reliability of project planning for several key urban development initiatives.
- Revamped record management systems, creating standardized templates for reports and maps, which streamlined documentation processes, reducing data retrieval times by hours and increasing overall efficiency in project tracking and analysis.

Intern

Kenya Urban Roads Authority [01/01/2017 – 31/03/2017]

City: Nairobi | **Country:** Kenya

- Produced accurate road layouts and conducted topographic surveys to support construction projects, ensuring the alignment of over 10 kilometers of urban roads, which helped meet project timelines and design specifications.
- Ensured compliance with project specifications by conducting detailed surveys, identifying and correcting discrepancies, which reduced construction delays by 15% and contributed to the successful completion of major infrastructure projects.
- Managed systematic record-keeping of survey activities, improving data organization and project tracking, which enhanced project management efficiency and facilitated collaboration across engineering teams.

Project Assistant

University of Nairobi Enterprises and Services [01/09/2015 – 31/05/2017]

City: Nairobi | **Country:** Kenya

- Managed research activities involving data collection and analysis, overseeing the gathering of information from multiple sources such as field surveys, government reports, academic journals, and focus group discussions, ensuring systematic data organization that contributed to clearer insights for over 10 strategic planning projects.
- Conducted detailed reviews of project documentation, identifying and filling critical knowledge gaps that facilitated more efficient fieldwork preparation, reducing fieldwork setup time by 20% and leading to faster, more accurate data collection across 5 major research initiatives.
- Supervised fieldwork to ensure accurate data collection, overseeing over 15 field researchers and maintaining consistent adherence to standardized protocols, which directly contributed to the successful completion of 5 research projects, impacting policy recommendations for community development.

EDUCATION AND TRAINING

Master of Geomatics for Environmental Management

The University of British Columbia [01/09/2024 – Current]

City: British Columbia | **Country:** Canada | **Website:** https://www.grad.ubc.ca

MSc in Data Science and Analytics

Strathmore University [05/2021 – Current]

City: Nairobi | **Country:** Kenya | **Website:** https://strathmore.edu/ | **Final grade:** Course work completed, Dissertation pending | **Thesis:** SPATIAL OPTIMIZATION OF THE LOCATION OF TRANSFORMERS IN LAIKIPIA COUNTY

BSc in Geospatial Engineering

The University of Nairobi [04/2013 – 07/2018]

City: Nairobi | **Country:** Kenya | **Website:** https://www.uonbi.ac.ke/ | **Final grade:** First Class Honors | **Thesis:** SUITABILITY ANALYSIS OF LOCATION OF WIND FARMS IN LAIKIPIA, KENYA

Certificate

Loreto High School Matunda [02/2008 – 11/2011]

City: Nairobi | **Country:** Kenya | **Final grade:** A- (Minus)

Certificate

Esri Eastern Africa

City: Nairobi | **Country:** Kenya | **Website:** https://www.esriea.com/ | **Field(s) of study:** GIS

Imagery In Action,Spatial Data Science, ArcGIS Pro Essential Workflows, Managing Geospatial Data with ArcGIS, Sharing Content to ArcGIS Enterprise, Deploying and Maintaining a Multi user Geodatabase, Configuring Utility Networks in ArcGIS

NETWORKS AND MEMBERSHIPS

[2019 – Current] Nairobi
Graduate Member - Institution of Surveyors of Kenya

HONOURS AND AWARDS

[09/2019] The University of Nairobi
Best undergraduate final year research project.

VOLUNTEERING

[03/02/2021] Nairobi
Kenya Red Cross Society