

RIOBA RAMADHAN MWITA

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PROFESSIONAL SUMMARY

Alumnus of Moi University, trained in GIS, Remote Sensing, land surveying, cartography, and environmental assessment. Experienced in seasonal survey work, government-linked geospatial assignments, spatial workshops, and hands-on field operations using RTK GNSS, GPS, and Total Station. Possesses strong skills in geospatial data processing, thematic mapping, and spatial analysis, alongside experience supporting clients with academic and non-academic research. An environmental practitioner with complementary web development skills, capable of developing functional digital solutions and databases to support geospatial and environmental work.

KEY SKILLS

Geospatial & Surveying Skills

- ✓ Geographic Information Systems (GIS) and Remote Sensing
- ✓ Environmental assessment and spatial analysis
- ✓ Land surveying (RTK, GPS, Total Station)
- ✓ Cadastral and plain surveying
- ✓ Geodetic surveys
- ✓ Topographic surveying

Software & Technical Tools

- ✓ ArcGIS
- ✓ QGIS
- ✓ AutoCAD (survey plans and floor layouts)
- ✓ R Studio (Leaflet, basic spatial and statistical analysis)
- ✓ Google Earth Pro and Google Earth Engine
- ✓ Spatial Data Management Systems
- ✓ HTML, CSS, MySQL, PostgreSQL and JavaScript
- ✓ PHP (Backend Web Development)
- ✓ SQL (Database Design, Management and Querying)
- ✓ React.js (Frontend Web Development)
- ✓ Microsoft Office Suite (Word, Excel, PowerPoint, Access)
- ✓ Web Application Development (Frontend & Backend)

EDUCATION

Moi University

BA Geographic Information Systems (GIS)
Second Class Honours

Kanyawanga High School

Kenya Certificate of Secondary Education
Completed: 2020

Bukuria Schools

Kenya Certificate of Primary Education
Completed: 2016

WORK EXPERIENCE

Land Survey Assistant (Seasonal)

Homeland Surveyors, Nyeri County February 2022
– October 2025

I undertook seasonal survey assignments covering cadastral, geodetic, and plane surveys, operating RTK GNSS, GPS, and Total Station equipment for accurate field data collection. I prepared survey plans, site layouts, and coordinate computations using AutoCAD, carried out boundary verification, topographic mapping, and basic utility mapping, and maintained survey records while supporting field logistics and client deliverables. This experience strengthened my ability to translate precise field measurements into reliable technical drawings and spatial outputs suitable for land registration, development planning, and professional survey deliverables.

GeoLink Surveyors, Nyeri County

December 2024 – January 2025

I participated in RTK GNSS surveys for land subdivision and boundary identification, assisting with field data collection, beacon identification, and boundary re-establishment. I supported cadastral survey operations through measurements and accurate recording of field observations, contributed to the preparation of subdivision layouts and basic survey documentation, and worked under licensed surveyors to ensure compliance with established survey standards and procedures. This role enhanced my practical understanding of cadastral workflows, regulatory compliance, and the importance of accuracy and consistency in land subdivision and boundary definition processes.

Octa-Surveys and Engineering, Kwale County

October 2025 – November 2025

I assisted in conducting land surveys, collected field data using survey instruments, and supported survey control establishment. I participated in boundary surveys and topographic mapping exercises, assisted in the preparation and checking of technical survey documents and drawings to ensure accuracy, and supported general survey activities including field coordination and data organization. This experience reinforced my field discipline, attention to detail, and ability to support survey operations efficiently from data collection through to final technical documentation.

Web Development (Freelance) October 2025

– Present

I undertake freelance web development focused on building practical, data-driven systems for professional and organizational use.

Designed and developed a web-based survey data portal for Homeland Surveyors in October, 2025 to support secure storage, retrieval, and organization of survey maps, coordinate data, and project files.

Developed a logistics management portal for Chandaria Industries Ltd. to facilitate tracking, coordination, and management of logistics operations between December, 2025 and January, 2026.

GIS & Remote Sensing Trainee (Industrial Attachment)

Directorate of Resource Surveys and Remote Sensing (DRSRS), Nairobi

April 2024 – July 2024

I gained hands-on experience in processing and interpreting satellite imagery for environmental monitoring and land use analysis, applying GIS and Remote Sensing techniques to derive meaningful spatial information for planning and management purposes. I participated in geospatial workshops focused on spatial data management, metadata, and government mapping standards, strengthening my understanding of institutional workflows and data quality requirements. I developed practical skills in preparing accurate maps and spatial datasets for land and environmental management demonstrations, including data cleaning, layering, and cartographic presentation. In addition, I supported road network mapping and updating activities for infrastructure planning under technical supervision, contributing to the preparation of spatial outputs used in planning and decision-making contexts.

PROJECTS & PRACTICAL EXPERIENCE

Academic Research

Determination of the Most Suitable Dumpsite Location in Kesses Subcounty, Uasin Gishu County, Kenya;

I conducted a GIS-based suitability analysis integrating land use, slope, hydrology, settlement proximity, and environmental constraints to identify optimal locations for solid waste disposal. The study produced environmental risk and hazard maps that provided spatial evidence to support informed and sustainable waste management decision-making.

Government-Linked Project

Field data collection and spatial data processing for road updates and infrastructure planning in Kiambu County.

Freelance Projects

Environmental and spatial analysis support, including forest cover change detection, land use and land cover change analysis, and land fragmentation studies in Uasin Gishu County.

Spatiotemporal analysis focusing on the interaction between climate variability and water availability in Machakos County.

Agro-spatial analysis, including tea farming suitability and productivity assessment in Kericho County and urban agriculture mapping in Eldoret Town.

Land use planning and site suitability analysis for industrial development in Nyeri County.

Urban Expansion and Land Use Change Analysis in Eldoret Town.

LANGUAGES

- English – Fluent
- Kiswahili – Fluent

HOBBIES

- Long runs
- Studying Mental Health Topics

REFERENCES

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