

GEOINFORMATION SCIENCE AND EARTH OBSERVATION

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PROFESSIONAL PROFILE

A detail-oriented GIS professional with experience in geospatial data analysis, remote sensing and spatial database management in agricultural, environmental and government sectors. Possesses 2+ years of hand on experience in satellite image processing, GPS field data collection and multi- platform geospatial toolsets including ArcGIS, QGIS, AutoCAD Civil 3D and Google Earth Engine. Skilled in compliance focused mapping, infrastructure digitization and project integrity through spatial modelling and interactive dashboards. Contributed to large scale environmental monitoring and disaster risk reduction initiatives, improving operational planning and resource allocation through data driven insights. A team player with proficiency in geospatial software suites, data visualization and spatial automation, committed to accuracy, sustainability and adaptive problem solving in field and institutional settings.

WORK EXPERIENCE

Ruaraka Survey Office

Nairobi, Kenya

GIS Intern (Attachment)

May 2023 - Aug 2023

- Registered, archived, and retrieved survey records, enhancing documentation efficiency by 20%.
- Supported policy-aligned spatial reporting and documentation per institutional standards.
- Drafted and edited spatial data in **AutoCAD**, increasing map efficiency by 35%.
- Transformed 100+ legacy records from **Cassini** to **UTM**, enhancing spatial accuracy.
- Digitized and georeferenced maps using **ArcGIS** and **QGIS**, converting 40% of paper records.
- Charted and amended **Registry Index Maps (RIMs)** and cadastral data to meet national standards.

Redfin Engineering Ltd

Nairobi, Kenya

Assistant Surveyor (Field work)

October 2024 to June 2025

- Guided water pipeline excavation by setting accurate levels with a digital level, boosting installation precision by **25%**
- Interpreted and implemented pipeline layout plans, ensuring clear coordination between engineering and site teams.
- Participated in preparation and Implementation of the Bill of Quantities (BOQ), enabling accurate material estimation and cost control.
- Spearheaded site reporting and archiving, ensuring clear documentation of completed works in line with project scope, enhancing tracking, accountability, and handover accuracy.

Kenya Forest Service (KFS)

Kericho, Kenya

Assistant Surveyor (Masaita Forest Station under kfc)

July 2025 to Date

- Planned and supported field mapping operations, streamlining survey workflows and improving data collection efficiency by **30%**.
- Organized and managed aerial survey records and geospatial datasets, increasing data retrieval speed and accuracy by 40%.
- Maintained and calibrated aerial survey and GIS equipment, reducing spatial data errors and improving output accuracy by 25%.
- Developed GIS training materials and guided trainees on spatial data handling, improving technical competency levels by 30%.

EDUCATION

Dedan Kimathi University of Technology

Bachelor of Science: Geospatial Information Science & Remote Sensing

Nyeri, Kenya

May 2020- June 2024

SKILLS & INTERESTS

Skills: Spatial Data Analysis | Infrastructure & Utility Network Mapping | Spatial Database Management | Field Data Collection (GPS) | GNSS Surveying | Geospatial Digitization | Data Quality Control | Map Production | Spatial Querying | Georeferencing Techniques | GIS Data Integration | Mobile GIS Data Capture | Spatial Automation | Suitability Analysis.

Software Skill: ArcGIS Pro | QGIS | AutoCAD Civil 3D | Google Earth Engine (GEE) | ENVI | Erdas Imagine | PostgreSQL/PostGIS | Python | Agisoft Metashape (Photogrammetry) | Excel (Advanced Data Analysis and Reporting) | Power BI (Dashboard and Data Visualization) | Microsoft Office Suite (Word, PowerPoint) | GNSS Data Processing Software | Survey123/Field Maps | Adobe Illustrator (for Infographics and Reporting)

SELECTED MAJOR ACHIEVEMENTS

- Supervised water pipe-laying project from Bomas of Kenya to Royal Park within Lang'ata, ensuring precise gradient control and alignment of over 3.4+ km, improving urban drainage efficiency and reducing installation errors by 25%.
- Engineered flood risk mapping for 2,500+ hectares of Ahero rice fields using Google Earth Engine, boosting productivity by 25% through proactive hazard planning.
- Led field data collection and mapping operations at kfc, streamlining survey workflows to increase efficiency by 30% and deliver precise, timely geospatial insights.

CERTIFICATIONS & AWARDS

- Certified Geospatial Engineer by Dedan Kimathi University of Technology
- Recognized Data Analyst by Digital World Tech Academy (Short Course)
- Head of Election Committee, Geospatial Developers' Club (G-Dev), DeKUT - April 2022 to May 2024

REFERENCES

Mr. Frank Juma

Head survey officer at Kenya Forest Collage

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Mr. Tom Nyang'or

Senior Cartographer at Ruaraka Survey Office

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Madam Florence Rwamba Njue

Principal Surveyor at Ruaraka Survey Office

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