

# MOSES KERAMA OKEMWA

Kenyan | Nairobi, Kenya | +254 711543471  
mkerama07@gmail.com | LinkedIn :<http://linkedin.com/in/moses-kerama>

## SUMMARY

I am a dedicated professional with a diverse background in surveying and overseeing day-to-day administrative activities. With five years of experience, I possess strong expertise in both field and office surveying, including engineering surveys, land measurements, cartography, topographic surveys, and Geospatial Information Systems (GIS) analysis. Skilled in data management, I excel at integrating datasets into engineering programs and leveraging data analytics and data science to support decision-making and problem-solving. My strong interpersonal abilities foster effective collaboration and communication, ensuring seamless coordination across teams and projects.

## Core Competencies

- Technical Competencies
- Project Management
- Analytical Thinking and Problem-Solving
- Communication Skills
- Leadership and Teamwork
- Adaptability and Learning Agility
- Attention to Detail
- Regulatory and Compliance
- Time Management
- Client and Stakeholder Management

## EDUCATION

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE & TECHNOLOGY**– Nairobi, Kenya **September 2014 – April 2021**  
BSc (HONS) Geomatics Engineering and Geospatial Information Systems

**SACHO HIGH SCHOOL - Baringo, Kenya** **February 2010 - November 2013**  
Certificate of Secondary Education (K.C.S.E)

## Certifications

- Data Science and Machine Learning/Web Development
- Quality Management Systems in Aviation
- Data Analytics with ALX

## Professional Affiliations

- Graduate Member Institution of Survey of Kenya Member No. 5345

## WORK EXPERIENCE

**Data Entry Specialist** **August 2024 - Present**

### STATE DEPARTMENT OF LANDS AND PHYSICAL PLANNING

- Accurately input and update land-related data, including cadastral, registration and survey records into the Ardhi Sasa management system.
- Scanned, digitized and systematically archived physical records, such as survey plans, title deeds and maps for ease of access and retrieval.
- Conducted thorough reviews of entered data to identify discrepancies and ensure accuracy and completeness.
- Input and updated geospatial data into GIS platforms to support land management and planning activities
- Maintained logs of completed work, data discrepancies, and corrective measures taken
- Trained and supported other staff in basic data entry and management tasks.

**Aeronautical Information Service Cartographer** **April 2023 - March 2024**  
**KENYA CIVIL AVIATION AUTHORITY (KCAA)**

- Worked closely with experienced cartographers to understand the cartographic standards and specifications set by international aviation authorities.

- Cleaned, formatted, and preprocessed data to ensure it is consistent, accurate, and ready for analysis.
- Verified and validated data to resolve inconsistencies or errors.
- Created a general database for all the data required in chart construction using ARCGIS.
- Training other personnel within the organization on aeronautical cartography processes and procedures to enhance skills and knowledge.
- Effectively managed administrative activities, ensuring smooth operations and compliance with organizational standards across various projects.
- Provide logistical support for meetings, workshops, and training sessions.

#### **Project Surveyor**

**May 2021 - November 2022**

#### **ASSUP ENTERPRISES**

#### ***Performance Based Contract Works - (KENHA INSTRUCTED WORKS)***

#### ***Projects: Nyayo cross culvert, Mlolongo U-turn, Sabaki service road and General Motors Busbay Nairobi bound***

- Conduct topographic surveys to gather information about the existing terrain, including elevation, features, and natural elements that may impact the road construction.
- Setting out and establishing survey control points to ensure accurate and precise measurements throughout the construction site for earthwork excavations.
- Determining the amount of excavation and fill required to shape the road surface.
- Ensuring proper thickness and slope of the road layers (subgrade, sub-base, base course, and pavement).
- Designing the placement of drains, culverts, and other structures to manage water flow.
- Providing daily survey data that is to be taken on the ground for quantities needed for construction
- Communicate regularly with project managers, engineers, and other stakeholders to provide updates on surveying activities and address any concerns.

#### **GIS ANALYST AND PHYSICAL PLANNER**

**October 2020 - November 2020**

#### **RENAISSANCE LTD**

#### ***Project – Nyamira County Land Use Plan***

- Utilized Geographic Information Systems (GIS) software to analyze spatial data and create base maps illustrating land use patterns, transportation networks, and other relevant information for the Nyamira county market centers and township area.
- Generated descriptive reports and data visualizations to help the team, ensuring data-driven decisions and optimizing project efficiency.

#### **Project Surveyor**

**November 2019 - August 2020**

#### **CAS CONSULTANTS COMPANY**

#### ***Project – Beregei water supply project (Baringo County) and Mwanja Dam (Machakos County)***

- Conducted topographic surveys of road sections and areas designated for proposed water tanks.
- Prepared sitemaps for profile development to assist in construction planning.
- Designed profile data and contour maps for project implementation.
- Established benchmarks and principal points for tank placement and water line routing.
- Set up control points to facilitate accurate topographical surveys.

#### **Site Surveyor**

**February 2020 - March 2020**

#### **VIRUNGA POWER AND TERRCON CONSULTANTS**

#### ***Project – Hydropower Project Murang'a County***

- Staking out of the waterway channel from the head works to the power station.
- Topographic survey of the power station and the access road to the power station for design preparation..
- Carrying out of cadastral survey to determine the fixed boundaries of the parcels that were to be acquired for the hydropower project at Muranga County
- Produce a land acquisition map that would determine how the people within the project area would be compensated.

#### **Intern at the survey and drawing department**

**October 2019 - January 2020**

#### **NAIROBI CITY WATER AND SEWERAGE COMPANY**

- Preparation of profile maps and survey drawings that were to be used in the rehabilitation of sewer lines in various regions of Nairobi County.
- Topographical surveys of Karen and Kahawa sewer ponds
- Leveling of manholes to determine their invert levels for future proposed sewer lines.

**Intern at the Geomatics and GIS department**

**August 2018 - November 2018**

**KENYA ELECTRICITY GENERATING COMPANY PLC (KENGEN) Ol-Karia Geothermal Power Station**

- Topographical survey of proposed drilling sites and power generating stations
- Monitoring of water levels by taking level readings of Lake Naivasha to ensure enough water for cooling.
- Monitoring of surface deformations around the steam pumps.
- Analyze steam pump level readings over time and correlate them with other spatial datasets like geological formations, fault lines, and thermal gradients to ensure efficient and sustainable extraction of geothermal energy.

**ACHIEVEMENTS**

- Ensured all projects met local land use, zoning, and environmental regulations, maintaining high standards of safety and compliance throughout.
- Conducted topographic and engineering surveys for infrastructure projects, performing data analysis and reporting to support decision-making.
- Led survey teams and provided mentorship to junior surveyors and aviation personnel, fostering a collaborative and productive work environment.
- Built and maintained strong relationships with clients and stakeholders, ensuring project goals were aligned with their expectations and delivered to satisfaction.
- Conducted data quality checks and managed documentation, ensuring proper storage and backup of project data.

**SKILLS**

**Data Analysis**

Excel  
Python  
Tableau  
Power BI

**Survey and GIS**

ARCGIS  
AUTOCAD - Civil 3D  
QGIS

**Survey Tools**

RTK  
Total Station  
Dumpy and Automatic Level

**References**

**Mr. Vincent Kivaya,**  
**Chief Lecturer Aeronautical Information Management (AIM),**  
**East African School of Aviation, P.O. Box: 30689-00100, Nairobi, Kenya.**  
**Tel +254 722 976 807**  
**Email: vkivaya@easa.ac.ke/ vkivaya@gmail.com**

**Mr. Josephat Kebu, Director of Centre of Excellence, KenGen- Ol-Karia Geothermal Station,**  
**P.O.BOX 785, Naivasha. Tel +254 720 465757**  
**Email:ondoro80@gmail.com**

**Mr. James Shikuku, MSc. Sustainable Urban Development | BSc. Geomatic Engineer| EIA/EA Associate Expert| Internal**  
**Quality Auditor|, Kenmatics Consultants Company,**  
**Tel +254 723929258**  
**Email:skjames45@gmail.com**