

01/05/2021

## NDUNG'U EVANS KARANJA.

Land Surveyor and Geo-Information Expert.

Curriculum Vitae.



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## PROFILE SUMMARY

I am an astute, diligent, hardworking, and self-motivated person with an intricate zeal for geospatial technology and the impact it can have in our modern-day society. I work under minimal supervision to achieve the goals set before me. Furthermore, I enjoy working in a dedicated and dynamic environment that aims for high-performance spatial analytics technology for modern-day problems.

## EDUCATION AND PROFESSIONAL QUALIFICATIONS

**2016 -2021                      Jomo Kenyatta University of Agriculture and Technology**

- BSc. in Geospatial Information Science => **Second class honors (upper division)**

**2015-2016                      Embu College**

- Computer proficiency    =>    Distinction

**2012 -2015                      Siakago Boys High School**

- KCSE => A( 81 points)

**2003 -2011                      Seven Forks Primary School**

- K.C.P.E => **317 (B-)**

## KEY SKILLS AND COMPETENCIES ACQUIRED

- **Land Surveying:** I'm competent in undertaking cadastral, topographical, engineering, and static surveys.
- **Field Data observation:** Using GNSS (both in RTK and CORS configurations), total station, theodolite, and level.
- **GIS Spatial Analysis/ Spatial Data science:** using ArcGIS, QGIS, and Python (GDAL/OGR, PYQGIS, and ArcGIS API for python).
- **Remote Sensing Skills:** Data acquisition, image Pre and Post-processing, and digital image analysis in Erdas.
- **Cartographic Skills:** Mapmaking both in manual and using GIS software and web mapping.
- **Computer Programming:** I'm proficient in Python, JavaScript E6+, C++, SQL, HTML5, CSS and batch programming.
- **Database Management:** Competent in handling SQL& non-SQL databases both in spatial and non-spatial context.
- **Tech Savvy:** Proficient in windows and Ubuntu-Linux operating system, OS/ software installations, and data entry using Microsoft Office suite and google docs.
- **Excellent Communications and Interpersonal skills:** Good command of English and Swahili language and ability to relate well with all colleagues.

## WORK EXPERIENCE

### **Surveyor and Cartographer Intern.**

**Ministry of Lands and Physical Planning, Survey Department, Ruaraka; 4<sup>th</sup> August 2019 to 4<sup>th</sup> October 2019.**

#### **Duties**

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- Cadastral file compilation and Cadastral survey quality control/checking.
  - Preparation of subdivision scheme plans using AutoCAD
  - Data Collection using Total station and RTK.
  - GNSS - RTK and Static operation and observation.
  - Quality control of Topographic survey.
  - Vectorization of raster data by bearing and distances and direct Vectorization using coordinates
  - Cartographic map design in Arc map.
  - PID's scanning using a drum scanner, Georeferencing, and map digitization in Arcmap.
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### **Land Surveyor Intern.**

**Jomo Kenyatta University of Agriculture and Technology**

**5<sup>th</sup> August 2018 to 6<sup>th</sup> October 2018.**

#### **Duties**

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- Topographic Surveying using a total station.
  - Control Point Network extension using theodolite and tape measure
  - Cross-section and profile leveling using a dumpy level.
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## PROJECTS

- [Web - GIS parking management system.](#)
- [Learning Log App.](#)

## CERTIFICATION

- [Programming for Geospatial Hydrological Applications](#) by UNESCO
- [Spatial Data Science: The New Frontier in Analytics](#) by Esri.
- [Technical Support Fundamentals](#) by Google.
- [Programming for Everybody \(Getting Started with Python\)](#) by the University of MICHIGAN.
- Continuously Operating Reference Stations and RTK GNSS by Measurement Systems LTD.
- TETHYS Platform by RCMRD and AQUAVEO.

## VOLUNTEERISM

- Participated at Kenya Red Cross Mapathon to map buildings in Narok County to update the Open Street Map coverage for disaster management for communities at risk.
- An active mapper at Humanitarian OpenStreetMap Team (HOT).

## Hobby

- Watching documentaries and movies.
- Listening to podcasts and audiobooks.

## REFEREES

### Lecture

George Watene

Jomo Kenyatta University of Agriculture and Technology

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### Surveyor

Bernard Munyao

Survey of Kenya

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### Geospatial Data Manager

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