

6/2/2021

## NDUNG'U EVANS KARANJA.

Land Surveyor and Geo-Information Expert.

Resume.



: <https://bit.ly/evanskaranja>



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# CURRICULUM VITAE

## PROFILE SUMMARY

I am an astute, open-minded person and a quick learner who is eager to be challenged. A great team player with excellent communication skills and the ability to work under pressure and relate to a wide range of people. My work ethics are embedded in leveraging my skills to find effective solutions to tasks at hand. I am passionate about location intelligence and its applicability in solving various location-based challenges in our daily lives.

## 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 language.
- **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.
- **Web Development:** Using python Django/Geodjango, React Js, Leaflet map API, Google maps API, Safaricom Daraja API and AfricasTalking SMS API.
- **Tech Savvy:** Proficient in windows and Ubuntu-Linux operating system, OS/ software installations, and data entry using Microsoft Office suite and google docs.

## WORK EXPERIENCE

### **GIS and Remote Sensing Intern.**

**Geopsy Research.**

**5<sup>th</sup> April 2021 to Date.**

#### **Duties**

- 
- Developing a machine learning model for food security characterization.
  - Research on urban growth
  - Web mapping and web apps development.
  - Map design on Qgis.
  - Hosted a webinar on “DEVELOPING A GIS BASED PARKING MANAGEMENT AND GUIDANCE INFORMATION SYSTEM” on 27/05/2021.

YouTube Link: <https://www.youtube.com/watch?v=BA-g4gBQ4K0&t>

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### **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.
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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**

- 
- 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

- Visit my [portfolio](#) website to view projects undertaken.

## 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

- Listening to podcasts/audiobook and watching movies.

## REFEREES

**Dr. Francis Oloo,**  
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