6/2/2021

# NDUNG'U EVANS KARANJA.

Land Surveyor and Geo-Information Expert.

Resume.





: https://bit.ly/evanskaranja



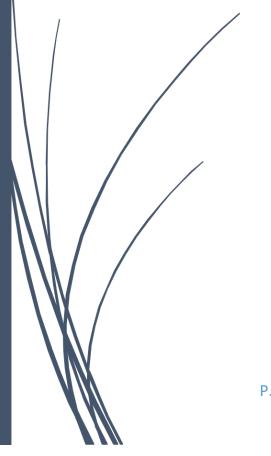
: Evans Karanja.



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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. 5th 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 BASEDPARKING MANAGEMENT AND GUIDANCE INFORMATION SYSTEM" on 27/05/2021.

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

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**

- 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.

Land Surveyor Intern.

Jomo Kenyatta University of Agriculture and Technology 5th August 2018 to 6th 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.

## **PROJECTS**

Visit my <u>portfolio</u> website to view projects undertaken.

#### **CERTIFICATION**

- Programming for Geospatial Hydrological Applications by UNESCO
- Spatial Data Science: The New Frontier in Analytics by Esri.
- <u>Technical Support Fundamentals</u> by Google.
- <u>Programming for Everybody (Getting Started with Python)</u> by the University of MICHIGAN.
- <u>Continuously Operating Reference Stations and RTK GNSS</u> 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,

Founder and Director, Geopsy Research. <u>oloofrank@gmail.com</u> +25422173755.

#### Wencelaus Simiyu,

Platform Configuration Engineer, Esri Eastern Africa, <u>simiyuwencelaus@gmail.com</u> +254702340785.

#### Bernard Munyao,

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