12 June 2021

NDUNG'U EVANS KARANJA.

Land Surveyor and Geo-Information Expert. Resume.





: https://bit.ly/evanskaranja



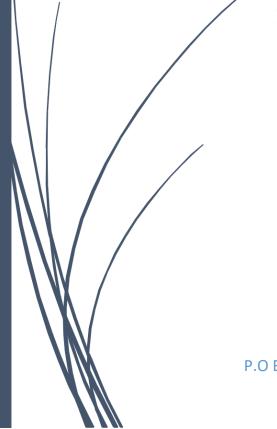
: Evans Karanja.



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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.

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; 4th August 2019 to 4th 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 levelling using a dumpy level.

SKILLSET AND COMPETENCIES

- 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.

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-)

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.

PROJECTS

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

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,

Co-Founder and Geoscience Lead, Geopsy Research. Lecture, Technical University of Kenya. <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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Ministry of Lands and Physical Planning,
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+254722243478.



JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

This is to certify that

Adungu Zvans Kavanja

having satisfied all the requirements for the award of the degree of

BACHELOR OF SCIENCE IN GEOSPATIAL INFORMATION SCIENCE

Gewond dan Honours (Upper Yivision)

was admitted to the degree at a congregation
held at this University
on Friday the Ninth of April
in the year
Two Thousand and Twenty One

Vice Chancellor

Deputy Vice Chancellor (Academic Affairs)