

10 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 BASED PARKING 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.
- [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.

PROJECTS

- Visit my [portfolio](#) 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.
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Wencelaus Simiyu,
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**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**

This is to certify that

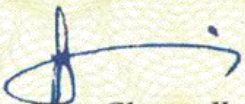
Adungu Evans Karanja


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

**BACHELOR OF SCIENCE IN
GEOSPATIAL INFORMATION SCIENCE**

Second Class Honours (Upper Division)

*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)