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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 in 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 really enjoy working in a dedicated and dynamic environment that aims for high performance spatial analytics 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:** Map making both in manual and using GIS software's and web mapping.
- **Computer Programming:** I'm proficient in Python, JavaScript E6+, C++, SQL, HTML5, CSS and batch programming.
- **Database Management:** Competent 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 Attachee.

Ministry of Lands and Physical Planning, Survey Department, Ruaraka; 4th August 2019 to 4th 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 drum scanner, Georeferencing and map digitization in Arcmap.
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Land Surveyor Attachee.

Jomo Kenyatta University of Agriculture and Technology

5th August 2018 to 6th October 2018.

Duties

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- Topographic Surveying using total station.
 - Control Point Network extension using theodolite and tape measure
 - Cross-section and profile levelling using 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 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 audio books.

REFEREES

Lecture

George Watene

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Surveyor

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