NDUNG'U EVANS KARANJA.

Land Surveyor and Geo-Information Expert.

Resume.

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: Evans Karanja.

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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 leveling using a dumpy level.

SKILL SET 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,
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