

Career Objective

Currently looking for challenging and mentally-stimulating new position, where I can leverage gained skills, qualities and competencies to support achievement of core goals & objectives and ensure total synergy within an organization.


Core Skills and Competencies

- GIS & Geospatial Analysis: ArcGIS, QGIS, Google Earth, MapInfo, ERDAS Imagine, ENVI
- Fibre Network Planning & Design: FTTH, FTTB, FTTS, GPON, Metro Fibre Network
- Surveying & ROW Acquisition: Wayleave acquisition processes, field surveys, structural drawing
- Database Management: PostgreSQL, SQL
- Programming & Data Analytics: Python, R, Tableau, Power BI, SPSS
- AutoCAD & Network Design: High-Level and Low-Level Fibre Network Designs, Connect Master
- Climate Analysis: GeoCLIM, spatial modelling for climate impact assessments
- Project Management & Reporting: Vulnerability assessments, market analysis, and documentation
- Metro Fibre Planning & Design Standards: Developing, documenting, and maintaining fibre network design methodologies

Education and Qualifications

- Master's Degree in Geographic Information Systems (GIS) /2020 to 2022/University of Nairobi.
- BSc. Geomatic Engineering and Geospatial Information Systems (2nd Class Hons – Upper Division)/ 2013 to 2018 Jomo Kenyatta University of Agriculture and Technology.
- Certificate in Computer Packages: Ms Word, Excel, PowerPoint, Access, Internet and Emailing / 2013 Longisa E.C.D.E Training Centre.
- Kenya Certificate of Secondary Education (K.C.S.E) (Mean Grade – A Plain) 2009 to 2012/ Moi Siongiroi Girls' Secondary School



Work Experience

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|  Vulnerability Assessment and Mapping Assistant | 2022- 2023 |
|  UN-World Food Programme- RBN | |

Responsibilities

- Analyzed collected data to identify areas or populations at risk and assessing the potential impact of different hazards or threats.
- Utilized Geographic Information Systems (GIS) and other mapping tools to create vulnerability maps, visually representing the spatial distribution of vulnerabilities and highlight high-risk areas for further analysis.
- Contributed to the preparation of vulnerability assessment reports and publications, involving writing sections of the report, presenting findings, and supporting the team in data visualization and interpretation.
- Assisted in conveying vulnerability assessment results to stakeholders, both internal and external, in a clear and understandable manner, including preparing presentations or supporting workshops.

- Assisted the Vulnerability Analysis & Mapping (VAM) unit in the development of food security, market, and vulnerability analysis.
- Assisted in the development of market prices and food security using tableau.
- Contributed to the development of climate change analysis reports.
- Food Insecurity data analysis and visualization using SPSS and R.
- Supported four country offices in analysis of their activities that support livelihoods of the vulnerable populations..
- Participation in Annual country report writing for four regional countries (South Sudan, Djibouti, Burundi and Kenya).
- Documentation of reports and updating in the organization's website.
- Support the review of logframe against the line of sight in line with CSP
- Supported knowledge management in the unit

 Academic Break
 University of Nairobi

2020 to 2022

- Delivered lectures in GIS, surveying, and geospatial technologies.
- Assisted in student research projects on fibre network design and analysis.

 Survey and metro fibre Planning Technician
 Geonet Technologies Limited

Dec 2018 to 2020

Responsibilities

- Coming up with high level designs in google earth for use in field survey
- Produced low level designs after field survey using AUTOCAD.
- Identified potential routes for fiber distribution by carrying out survey field work
- Fiber Optics and Structural Drawing and Analysis
- Prepared survey and planning reports of the various surveys conducted and planned
- Survey and design of FTTH, FTTB and FTTS rollout projects
- Conducted Right of Way acquisition processes, ensuring compliance with regulations.
- Conducting optimizations surveys on existing networks and producing designs.
- Generated Bill of quantities for the network.
- Documented as built in Connect Master, MapInfo and updating CAD designs for future reference

 Intern
 Geosurv System Limited

June to Sept 2017

Responsibilities

- Successfully prepared plans for land survey field work, and conducted accurate topographic survey field work.
- Spearheaded cadastral, control survey and beacon re-establishment and placements.
- Analyzed problems and worked with various teams to help develop solutions, such as processing field data in the office, and using AutoCAD.
- Completed and prepared survey reports to the field work conducted.
- Analyzed parcels of data, scanned and geo-referenced hardcopy maps.

 Attaché
 Geodev K. Ltd.

May to Aug 2016

Responsibilities

- Digitized the raster images in the office for provision of vector files for vector analyses
- Control Survey using GPS including RTK survey
- Training on the use of ERDAS Imagine and ERDAS Apollo
- Performed data analysis using ArcGIS

Professional membership

Graduate member of the institution of surveyors of Kenya (Land Survey chapter)- member no. ISK/4629/G/LS/21


Volunteer Work

 Volunteer Mapper at Open Street Map (OSM)


2017 to Present


Assists in mapping unmapped areas and areas of interest to OSM as well as in the validation of mapped data in OSM.

Referees

 Mr. Siddharth Krishnaswamy


 Head of RAM Unit, World Food Programme (RBN)

 Siddharth.krishnaswamy@wfp.org

 Mr. Zaccheaus Ndirima

 VAM officer (WFP)

 Zaccheaus.ndirima@wfp.org

 Prof. Faith Karanja

 Chairperson, Department of geospatial and space Technology, UON

 faithkaranja@uonbi.ac.ke