THERESA NYATICHI MONARI

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SKILLS

Technical Skills: ESRI ArcGIS Products|QGIS|Python|GDAL Library|Pandas|Geopandas| Leafmap|Matplotlib|Folium|Leaflet|Rasterio|Geemap|Xarray|Rioxarray|Whitebox|Maplibre| Google Earth Pro|Git & GitHub|JupyterLab|Google Colab|MS Visual Studio|RTK|Total Station|Civil 3D|HTML|CSS|Microsoft Office.

Professional Skills: Data analytics|Scientific Research|Accountability|Analytical Thinking|Team Player|Effective Communication|Adaptive and Flexible|Responsible|Trustworthy|Problem-solving |Innovative|Responsive Web Design.

EDUCATION

The Technical University of Kenya   *Nairobi, Kenya*
Bachelor of Technology in Surveying Technology   *Sep 2018 - Dec 2023*
Second Class Honours, Upper Division
GPA: 3.47/4.00

- ***Relevant Coursework***: Geographic Information Science, Remote Sensing, Highway and Transportation Engineering, Engineering Surveying, Topographic Surveying, Geo-positioning, Geodesy, Cartography and Map Production, Cadastral, etc.

WORK EXPERIENCE

Kenya National Highways Authority (KENHA)   *Nairobi, Kenya*
Geographic Information Systems Intern   *Feb 2024 – Present*

- Geographical data Analysis and interpretation to guide efforts of road construction.
- Mapping and visualizing traffic patterns, road network statistics, and possible road maintenance and construction locations.
- Spatial database management of KeNHA's GIS Portal database.
- Analyzing satellite imagery for road projects.
- Geospatial data collection, i.e, topographic data using RTK for road projects.
- Providing geospatial information to infrastructure development and maintenance engineers.
- Road projects fieldwork member for geospatial data collection using RTK, topographic surveying, setting out, road reserve marking, levelling, referencing, cadastral surveying, and static surveying.
- Data visualization using ArcGIS Products, Civil 3D, and QGIS software.
- Digitization of the old topographic maps using ESRI ArcGIS Products.

Kenya National Highways Authority (KENHA)   *Nairobi, Kenya*
Land Surveyor (Attachment)   *Jan 2023 – Mar 2023*

- Road projects fieldwork member, Civil 3D mapping, road reserve marking, levelling, referencing, cadastral surveying, static surveying, and topographic surveying.
- Data visualization using ArcGIS Desktop, Civil 3D, and QGIS software.
- Digitization of the old topographic maps using ESRI ArcGIS Products.
- Setting out road infrastructure such as footbridges and drainage culverts.

OTHER CERTIFICATIONS

ESRI MOOC: Spatial Data Science|Make an Impact with Modern Geo Apps|Transform AEC Projects with GIS and BIM|Imagery in Action Going Places with Spatial Analysis.
Fundamentals of Remote Sensing: The NASA Applied Remote Sensing Training (ARSET).
Coursera: Introduction to Statistics|The Data Scientist's Toolbox|Machine Learning for All.

PROFESSIONAL MEMBERSHIP

The Institution of Surveyors of Kenya (ISK)   *Aug 2022 - Current*
ISK Membership No: 5418