THERESA NYATICHI MONARI

nyatichitheresa@gmail.com |+254741720361| GIS Portfolio | LinkedIn |GitHub

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   *Sept 2018 - Dec 2023*
GPA: 3.47/4.00

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

WORK EXPERIENCE

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

- Geographical data Analysis and interpretation to guide efforts of road construction.
- Mapping and visualization to show 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 for network operations and maintenance.

Kenya National Highways Authority (KENHA)   *Nairobi, Kenya*
Land Surveyor (Attachment)   *Jan 2023 – Mar 2024*

- 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: The New Frontier in Analytics|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).

PROFESSIONAL MEMBERSHIP

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