THERESA NYATICHI MONARI

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WORK EXPERIENCE:

Kenya National Highways Authority (KENHA)   *Nairobi, Kenya*
GIS Data Analyst Intern   *Feb 2024 - Current*

- Analyzing and interpreting geographical data to guide efforts of road construction.
- Mapping and visualization by producing understandable and educational maps that show traffic patterns, road network statistics, and possible road maintenance and construction locations.
- Helping to keep KeNHA's geospatial database (KeNHA GIS Portal) organized and up to date.
- Analyzing satellite imagery for road projects.
- Geospatial data collection, i.e, topographic data using RTK.
- Scanning, compiling, and digitizing topographic maps into digital formats.
- Providing geospatial information to infrastructure development and maintenance engineers for network operations and maintenance.

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

- Fieldwork team member for road projects, including 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.
- Spatial data extraction from Satellite imagery, processing spatial and aspatial data.
- Coordinates transformations to develop road project maps.
- Digitize old topographic maps using ESRI ArcGIS Products.
- Setting out road infrastructure such as footbridges and drainage culverts.

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.

SKILLS:

Technical Skills: GIS Programming | Python| RTK |Total Station| ESRI ArcGIS Products| QGIS| Google Earth Pro | Civil 3D|HTML|CSS| Microsoft Office.
Professional Skills: Data analytics| Scientific Research| Responsive Web Design | Report Writing| Accountability| Analytical Thinking| Leadership and Mentorship| Team Player|

Effective Communication and Listening| Flexible| Adaptive| Responsible| Trustworthy| Problem-solving | Innovative.

LEADERSHIP EXPERIENCE:

INDEPENDENT ELECTORAL AND BOUNDARY COMMISSION   *Kisii, Kenya*
CLERK – GENERAL ELECTIONS   *Aug 2022*
- Guiding the voters throughout the voting process.
- Assisting the presiding officer in counting the votes and filling the forms.
- Ensuring voting by use of the Biometric Voter Registration System.
- Keeping the secrecy and confidentiality of the Electoral Board.

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*
Membership No.: ISK No. 5418

REFEREES:

Mr. Tom Mumo Okongo	**Mr. Ezra Aming'a**
Assistant Lecturer, The Technical University of Kenya.	Land Surveyor, Bayana Construction Limited.
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