Lauryn Nzula M.

Geospatial Engineering Student

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Professional Summary:

I am a highly motivated Geospatial Information Science student at Jomo Kenyatta University of Agriculture and Technology with experience in research, programming, and surveying. My proficiencies in cartography and GIS have enabled me to gain a deep understanding of geospatial science and its potential in addressing complex issues. As an enthusiastic learner, I am eager to utilize my skills and knowledge to contribute meaningfully to an attachment position.

Work Experience

Six-month Internship at REREC,South B, Kenya.

Three-month eternal attachment at NEMA, South B, Kenya.

Two-month internal attachment at JKUAT main campus.

A one-week research program with IPSOS

Education:

- Bachelor of Science in Geospatial Information Science, JKUAT (in progress).
  Relevant coursework: Remote Sensing, Geodatabase Design, GIS Programming.

- Diploma in Data Analysis, JKUAT
  Certificate, Distinction   ●
  Kangaru Girls, Embu.
  Kenya Certificate of Secondary Education (KCSE), scored B+.

Skills:

- Technical Skills: Geospatial Analysis, GIS Mapping, Remote Sensing(R), Geodatabase Design, ArcGIS, QGIS, Python, MySQL, AutoCAD, GNSS, OpenStreetMap Digitizing.

- Projects:

  - ✓ Development of an API for monitoring shallow aquifer level changes caused by intensive borehole drilling in Wajir county.

  - ✓ Agricultural Boundary Delineation using Sentinel 2 Data and agglomerative Segmentation in Kangundo Ward.

  - ✓ Drawing Route survey maps with customer information of the powerline blueprint.

  - ✓ Change Detection using OTB plugin and Land Use and Land Cover Prediction using MOLUSCE plugin in QGIS

  - ✓ Land Use and Land Cover Prediction using MOLUSCE plugin

  - ✓ Creating a GIS Database using PostgreSQL, linking it with R and performing Spatial Analysis

  - ✓ Using Google Earth Engine for land use detection

  - ✓ Build a database for easy retrieval of documents in the Geospatial Departments at REREC.

  - ✓ Wayleaaves Acquisition process for rerec so at to generatesissue certificates

- Soft Skills: Communication, Leadership, Teamwork, Time Management, Problem Solving.
  - Language Proficiency: Fluent in English, French and Swahili.

Affiliations:

● Open Street Map, Kenya

● Institution of Surveyors of Kenya –Student Member

● Youth mappers- Student Member

● Science Technology Engineering and Mathematics (STEM) (2018-2019):   • Research Clubs of Africa (2017)

References:

Dr. Eunice Nduati

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Mr. Moffat G. Magondu

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