BRIAN KOOME KIRIMI

Student

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✉ koomebrian285@gmail.com

EDUCATION

Bachelor of Science in Geomatics Engineering and Geospatial Information Systems

Dedan Kimathi University of Technology

EXPERTISE

GEOMATICS

GIS

REMOTE SENSING

SURVEYING

CARTOGRAPHY

LANGUAGE

English

Kiswahili

PROFESSIONAL SUMMARY

Enthusiastic third-year Bachelor of Science in Geomatics Engineering and Geospatial Information System student at Dedan Kimathi University of Technology with a strong passion for spatial technology, spatial data analysis and the application of machine learning and deep learning in geospatial domains. Possessing a solid foundation in geographic information systems (GIS) and proficient in Python programming, I am dedicated to leveraging data-driven insights to address complex geospatial challenges. Committed to furthering my education and contributing to innovative solutions in the geospatial world.

WORK EXPERIENCE

August2023-Present

African Coalition Responsive to Climate Change | Adams, Ngong Road

Research assistant

During my volunteer at the African Coalition Responsive to Climate Change, I played a pivotal role in bridging my Geomatics Engineering background with the organization's mission of integrating mental health and climate change advocacy. I
- Conducted geospatial data collection and analysis.
- Utilized GIS tools for climate data mapping and visualization.
- Contributed to report creation linking climate change and mental health.
- Collaborated with a diverse team of experts.
- Supported event planning and community initiatives, reinforcing my commitment to the intersection of climate change and mental health.

February 2023-August

African Coalition Responsive to Climate Change | Adams, Ngong Road

OfficeAssistant

As an office boy in, I become the orchestrator of order and efficiency, quietly ensuring that every aspect of the office environment functions seamlessly. I did,
- Document handling, filing, and record-keeping.
- Accurate data entry and management of geospatial information.
- Coordinating schedules, appointments, and meeting arrangements.
- Providing communication support and message distribution.

Education

2021 - PRESENT | Dedan Kimathi University Of Technology

Bachelor of Science in Geomatics Engineering and Geospatial Information System

2021 | Kolanya Boys High School

Kenya Certificate of Secondary Education | Grade B |

TECHNICAL EXPERIENCE

Geospatial Technologies: GIS , Remote Sensing, GPS , Geodetic Surveying , Hydrography survey, Mining Survey, Engineering survey and Spatial Data Analysis.

Data Handling: Geospatial Database Management(PostgresSQL, PostGIS) , Databa,se Query Language (SQL) and Data Integration.

Mapping and Visualization: Cartography, Data Visualization, 3-D Modeling and Visualization and Web Mapping.

Surveying: Surveying Equipments(RTK, Total Station, Level machine) , Surveying Standards and GIS Project Management.

Advanced Analytics: Machine Learning (Supervised, Unsupervised, Reinforcement), Deep Learning (TensorFlow, Keras, PyTorch) and Spatial Analysis Software

Technical Tools: Programming and Scripting (Python), CAD Software and LiDAR.

PROJECTS

Precision Crop Health Management System: Real-time Assessment and Optimization Using Machine Learning, Drone Imaging and Weather Data

I developed a deep learning using U-Net architecture of Convolution Neural Networks, to identify the crops affected and the disease affected by them, calculate the area affected and using decision trees propose a suitable pesticide to be used

REFERENCES

Dr. Pamela Kaithuru
ACCRCC / Managing Director

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Dr. Arthur Sichangi
IGGreS / Director

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