DAVID KYALE KILONZO

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GRADUATE ELECTRICAL ENGINEER

Results-driven engineer with hands-on experience in electrical system design, high-voltage analysis, and data analytics. Skilled in AutoCAD, NEPLAN, MATLAB, and PLC programming. Proficient in Python, R, and SPSS for diagnostics, modeling, and performance improvement. Passionate about leveraging digital tools and structured problem-solving to drive innovation in engineering and SAP-aligned environments.

EXPERIENCE

Kenyatta University Teaching, Referral & Research Hospital (KUTRRH)
February 2022 – May 2022

- Conducted the hospital's electrical maintenance and engineering operations including circuit analysis, troubleshooting, and load balancing.

- Performed preventive and corrective maintenance of systems including lighting, control panels, backup generators, and medical equipment.

- Participated in drafting technical reports and compliance documents in accordance with hospital safety codes and KEBS standards.

- Used AutoCAD for site layouts, wiring diagrams, and load distribution schedules.

State Department of Public Works, Ministry of Roads, Transport, and Public Works
February 2023 – May 2023

- Contributed to design-stage engineering for public infrastructure (schools, courts, medical facilities) under government projects.

- Prepared AutoCAD electrical layout drawings including lighting, power, and communication systems.

- Conducted load estimations, prepared BOQs, and supported compliance review with local electrical codes.

- Collaborated with mechanical and civil teams to integrate MEP drawings and validate coordination.

EDUCATION

Bachelor of Science Electrical and Electronics Engineering

Kenyatta University | 2017-2024

- Second Class Upper Division

Kenya Secondary Certificate of Education

St Patrick's High School, Iten | 2013-2016

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CERTIFICATION & COURSES

- Machine Learning A-Z™: Hands-On Python & R In Data Science (Udemy)

- Python for Data Science and Machine Learning Bootcamp (Udemy)

- Learn 5 PLCs in a Day – AB, Siemens, Schneider, Omron & Delta (Udemy)

- PLC Programming from Scratch – Level 1 to 5 (Udemy)

- Ultimate Electrical Design Course from Zero to Hero (Udemy)

SKILLS

Technical Skills

- **Data & Programming:** Python, R, SQL, SPSS, Excel (Advanced), Scikit-learn, pandas, NumPy

- **Control & Automation:** PLC Programming (Siemens, Allen-Bradley, Delta, Omron, Schneider), Automation Studio, ISPSoft

- **Electrical Design & Simulation:** AutoCAD Electrical, NEPLAN, Proteus, DIALux Evo, ETAP, MATLAB/Simulink

CORE COMPETENCIES

Structured problem-solving, critical thinking, teamwork, rapid learning

LANGUAGES

- English- Fluent
- Swahili-Native

PROJECTS

Voltage Stability Analysis of a Grid Network using NEPLAN Software

Conducted comprehensive stability analysis of Nairobi's 66kV transmission grid using NEPLAN. Identified vulnerable load nodes and proposed grid reinforcement strategies.

Tools used: NEPLAN, Excel, load flow modeling, contingency analysis

REFERENCES

Eng. Kevin Mulima

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Construction Company
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Dr. Mike Asiyo

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