

MICHAEL WAMBUA

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Profile

Motivated Electrical Engineer with comprehensive knowledge in designing, implementing, and maintaining electrical systems for industrial and commercial applications. Adept at utilizing software tools for data analysis and automation, demonstrating a unique blend of engineering and technical skills. Committed to leveraging engineering principles to solve complex challenges while ensuring safety, quality, and operational efficiency.

Education

Bachelor of Science in Electrical and Electronics Engineering

University of Nairobi, 2nd Class Honours

Certifications

- ISO Quality Management Systems
 - Engineers Board of Kenya
 - Google Cloud Certified Associate Cloud Engineer
 - AWS Machine Learning Foundations Certification
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Core Competencies

- **Electrical Systems Design & Implementation:** Skilled in designing and implementing electrical systems with a focus on safety and operational efficiency.
 - **Project Management:** Experience in scheduling and managing electrical projects, ensuring timely delivery and adherence to goals.
 - **Technical Support:** Proven ability to offer technical guidance and support during installation, testing, and maintenance phases.
 - **Data Analysis:** Competent in analyzing energy consumption data to drive efficiency improvements.
 - **Problem Solving:** Strong analytical skills with a focus on troubleshooting electrical systems and optimizing performance.
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Professional Experience

Electrical Engineering Intern

Corrugated Sheets Limited

March 2024 – August 2024

- **Electrical Systems Design:** Designed and implemented electrical systems for industrial machinery, ensuring compliance with engineering standards and safety protocols.
- **Factory Logger System Development:** Developed a factory data logger system to enhance data management and operational efficiency, allowing for real-time monitoring and analysis of production processes.
- **Project Management:** Scheduled and managed electrical construction and maintenance projects, coordinating with team members to ensure timely and efficient execution.
- **Testing and Quality Control:** Conducted tests and inspections on electrical systems, ensuring all equipment met safety and performance requirements.
- **Troubleshooting and Collaboration:** Collaborated with engineers and technicians to troubleshoot issues and implement solutions to optimize system functionality.

Maintenance Engineering Intern

Energy and Petroleum Regulatory Authority (EPRA)

April 2023 – October 2023

- **Energy Regulations and Compliance:** Ensured strict adherence to renewable energy and electricity distribution regulations, maintaining industry-specific standards.
- **Technical Audits:** Conducted comprehensive technical audits of electrical distribution systems, identifying inefficiencies, safety concerns, and compliance issues, and provided actionable recommendations.
- **Renewable Energy Project Design:** Specialized in designing sustainable and efficient renewable energy projects (solar and wind systems), promoting environmental responsibility and energy sustainability.
- **Technical Standards Compliance:** Ensured compliance with international and local technical standards, ensuring the quality and reliability of electrical projects.
- **Energy Management Policy Review:** Collaboratively reviewed and evaluated energy management policies, offering insights to enhance energy efficiency and sustainability.
- **Environmental Compliance:** Ensured strict adherence to environmental compliance standards and regulations in all projects, minimizing ecological impact.
- **Automation:** Proficient in automating processes, including PDF data extraction, to streamline workflow and enhance data management.

Electrical Engineering Attaché

Colenco Consulting

June 2021 – December 2021

- Assisted in the assembly and troubleshooting of critical infrastructure systems, focusing on IoT data collection in distribution stations.
 - Performed routine maintenance on electrical systems, ensuring compliance with safety regulations.
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Technical Skills

- **Electrical Design Software:** Proficient in AutoCAD Electrical and SolidWorks Electrical for designing and analyzing systems.
 - **Data Analysis Tools:** Skilled in data analysis and reporting, providing actionable insights for efficiency improvements.
 - **Software Proficiency:** Basic knowledge of programming languages such as Python, enhancing the ability to automate tasks and analyze data.
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References

Available upon request.