

WEMA EKIRAPA

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PROFESSIONAL SUMMARY

Results-driven Engineer with comprehensive experience in highway engineering, materials testing, and project management. Proven ability to enhance project efficiency through technical skills and a strong understanding of quality assurance and safety protocols focusing on sustainable infrastructure and resource optimization. Hands-on experience in CAD drafting, site inspections, and project reporting. Currently pursuing Project Management certification, aiming to integrate engineering knowledge with effective resource management, sustainable development and leadership skills.

SKILLS

CAD Drafting	Materials Testing	Quantity calculations
Safety Protocols	Quality Assurance	Engineering documentation
Construction supervision	Data analysis	Tender Evaluation
Teamplayer	MS Office packages	Effective communication

PROFESSIONAL EXPERIENCE

ENGINEERING INTERN- *Kenya National Highways Authority*

October 2023 – Present

- Collaborated with senior engineers in executing infrastructure projects, contributing to the design modifications and engineering calculations for optimized project efficiency.
 - Conducted site inspections for ongoing and finished construction, providing critical feedback to enhance project quality.
 - Prepared detailed daily and monthly reports, summarizing key project outcomes for senior management.
 - Enhanced safety protocols by ensuring compliance with company policies and OSHA regulations.
 - Assisted in material testing for multiple infrastructure projects, ensuring that all materials met industry standards and regulatory compliance.
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ENGINEERING TRAINEE - *Material Testing and Research Department*

January 2023 – August 2023

- Provided support during the tender evaluation process for construction contracts, contributing valuable insights to senior engineers.
 - Conducted site inspections and prepared detailed site instructions for ongoing construction works.
 - Reviewed calculations for bar bending schedules and quantities in bill of quantities to ensure project accuracy and efficiency.
 - Participated in a road inventory exercise, helping compile critical data on road infrastructure conditions.
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EDUCATION

Bachelor of Science in Civil Engineering

Multimedia University of Kenya, Nairobi, Kenya

August 2017 – December 2022

CERTIFICATIONS

- **Graduate Engineer-in-Training** – Engineers Board of Kenya (EBK)
 - **Project Management Foundations, Initiation and Planning**– SkillUp EdTech
 - **Introduction to Project Management** – IBM
 - **Autodesk Course Completion Electronic Certificate** – Ongoing Certification (Autodesk)
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PROJECTS & ACHIEVEMENTS

- **Highway Infrastructure Design:** Contributed to the design and execution of multiple highway construction projects, focusing on material optimization and cost reduction through effective management strategies.
- **Materials Research:** Participated in advanced materials testing projects, leading to improved construction techniques and sustainable practices in infrastructure development.
- **Engineering documentation:** Optimized documentation by supporting senior management in timely analysis of monthly summary for quantities and test

INTERESTS

- Environmental Sustainability | Infrastructure Design | Travel and Exploration | Mentorship | Literature | Cooking