

Kennedy Martins Miroro

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SUMMARY

I am a results-driven Structural Engineer with over four years of experience in the design, analysis and supervision of complex building and infrastructure projects. I am proficient in developing high-precision structural designs and detailed drawings for roofing and building systems by utilizing MIDAS in addition to being an expert in conducting rigorous finite element analysis to evaluate load capacities, stress distribution and structural stability; thereby ensuring all structural designs meet the required building codes and regulatory requirements. Moreover, I am a collaborator who works seamlessly with architects, contractors and project managers to align technical designs with broader project objectives, with a proven ability to oversee construction activities through meticulous site inspections and safety audits while maintaining strict compliance with OSHA, SOPs and project specifications. I also integrate standardised emerging technologies and innovative engineering practices to deliver superior, high-performance designs.

SKILLS AND ABILITIES

- **Structural Engineering** - Structural Design and Analysis, Load calculation & stress distribution, roofing systems.
- **Communication Skills** - Drafting clear and accurate documentation, cultural sensibility, problem solving skills, building rapport, professionalism, active listening, clear and concise communication.
- **Research and Analytical Skills** - critical thinking, observation, process documentation, attention to detail, problem solving.
- **Time Management** - Adherence to Schedule, prioritizing tasks, handling multiple tasks, meeting deadlines.
- **Teamwork** - Efficient collaboration with cross-functional teams for project delivery within set parameters.
- **Software Proficiency** - Midas, Advanced Excell, Tedds.

EXPERIENCE

Structural Engineer
Meijer Engineers, Nairobi

May 2023 - Date

- Conducted structural analysis and design, utilizing MIDAS and Prota software to ensure structural integrity, stability and compliance with engineering standards.
- Utilised MIDAS to develop detailed and comprehensive structural drawings and documentation to ensure design accuracy for various projects including roofing and building systems.
- Conducted geotechnical analysis, evaluating soil properties and site conditions to inform foundation design and construction safety.
- Generated technical documentation following field investigations, ensuring all subsurface data was accurately reported for project compliance.
- Authored structural integrity reports and recommended technical solutions to restore the stability and longevity of various building components.
- Performed regular site inspections to verify that all construction activities adhered to established safety standards, building codes, design drawings and regulatory requirements.
- Utilized advanced Excel functions to perform complex structural calculations and automate data analysis for engineering projects.
- Enhanced budget efficiency by 15% through the identification of material discrepancies early to avoid financial losses associated with non-standard construction components.

Intern
Kenya Rural Roads Authority

October 2021 - November 2021

- Monitored roadwork progress, verifying that grading, paving, and drainage installations met engineering standards
- Conducted regular safety audits by evaluating site conditions against building codes and occupational health and safety protocols.
- Performed rigorous testing on project construction materials including asphalt, concrete and soil to verify strength and durability.

- Performed precise land surveys and utilised the data to set out road accurate alignments to guide construction activities.
- Engaged in cross-functional collaboration by working alongside architects, contractors and project managers to ensure timely achievement of project objectives
- Generated precise technical reports documenting engineering findings and project progress

EDUCATION

Masinde Muliro University of Science and Technology(MMUST)

Bachelor of Science in Civil and Structural Engineering

2018-2023

LANGUAGES

- English - Fluent
- Kiswahili – Fluent

REFEREES

Engineer Tom Namu

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