

CHARLES MULI

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Graduate Civil Engineer

Geometric Design of Highway | Pavement Design | Material Investigation & Testing | Engineering Surveying | Project Management | Contract Administration | Quality Control & Quality Assurance | Project Financial modelling | Project Economic Analysis | Civil3D | AutoCAD | Primavera

PROFESSIONAL SUMMARY

Graduate Civil Engineer with a focus on the technical design and strategic management of transportation projects. I offer a specialized background in highway geometric modeling and pavement engineering, underpinned by hands-on experience in material investigation & testing and precise engineering surveying. I bridge the gap between complex design and project execution through a rigorous commitment to Quality Assurance (QA/QC) and a practical command of Contract Administration. Beyond technical design, I bring an analytical perspective to project lifecycles, utilizing Financial Modeling and Economic Analysis to drive investment decisions and ensure environmental compliance. Advanced proficiency in Autodesk Civil 3D, AutoCAD, and Primavera allows me to streamline design development and manage construction schedules with a high degree of accuracy and efficiency.

Career Strengths

- **Analytical Thinking & Problem-Solving:** Quick to analyse construction data and resolve on-site technical issues, ensuring accuracy and continuity in infrastructure projects.
- **Critical Thinking & Decision-Making:** Skilled at assessing site challenges and selecting appropriate engineering solutions to maintain structural integrity and project alignment.
- **Attention to Detail & Accuracy:** Consistently ensures precision in setting out, levelling, and inspection activities, reducing errors and rework on-site.
- **Team Collaboration & Leadership Skills:** Works effectively with engineers, technicians, and site workers to coordinate construction tasks and drive project goals.
- **Communication & Interpersonal Skills:** Clearly communicates technical instructions and feedback to team members, ensuring smooth field operations and understanding.
- **Time Management & Organization:** Efficient in prioritizing tasks and managing tight schedules during survey, inspection, and supervision duties.
- **Adaptability & Flexibility:** Quickly adapts to changing site conditions, project scopes, and field tools while maintaining performance under pressure.

PROFESSIONAL EXPERIENCE

Inter Civil Engineer | August 2025 – December 2025

Express Shipping & Logistics (E.A) Ltd

- Developed concept and detailed design drawings for the renovation of the company head office, ensuring compliance with engineering standards and requirements.
- Assisted in the preparation of tender documents, including technical drawings, specifications, and supporting schedules.
- Supported contract administration through documentation control, coordination with contractors, and monitoring of contractual obligations.
- Prepared and monitored project schedules to facilitate effective planning, activity sequencing, and timely project delivery.
- Implemented Quality Control and Quality Assurance procedures to ensure materials, workmanship, and executed works met required standards.
- Conducted a comprehensive investment analysis for a proposed two-storey office building, evaluating project viability through detailed CAPEX and OPEX projections.
- Calculated key financial indicators, including Net Present Value (NPV) and Internal Rate of Return (IRR), to determine profitability and project break-even points.

- Performed Sensitivity Analysis and Payback Period modelling to mitigate financial risks and provide data-driven recommendations for strategic investment decision-making.
- Prepared a concept note and performed economic analysis for an avocado company, assessing both upstream and downstream market opportunities.

Inter Civil Engineer | January 2025 – July 2025

SARI Consulting Ltd – Dualling of Mombasa–Mtwapa A7 Road

Key Contributions

- Supervised structural works including girder beams, MSE walls, and concrete installations, ensuring adherence to engineering standards and structural safety.
- Supervised earthworks, cement improved gravel, and processing of subgrade layers.
- Preparation of projects progress reports on daily, weekly and monthly progress.
- Enforced compliance with design specifications, safety protocols, and quality benchmarks, minimizing defects and reworks across critical sections.
- Executed topographic surveys using RTK and total stations, delivering high-accuracy data for route alignment and drainage optimization.
- Led precision setting out of box culverts and road centerlines ensuring dimensional accuracy and efficient execution of works.
- Validated subgrade elevations, cut/fill volumes, and as-built data, enhancing construction progress tracking and documentation accuracy.
- Transformed raw field data into detailed CAD models and reports using Civil 3D, supporting decision-making for design refinements and construction planning.
- Conducted soil, concrete, and bitumen tests to ensure the materials adhere to the specified standards required for the project.

Civil Engineering Attache | January 2024 – April 2024

East African Engineering Consultants – Dualling & Upgrading of Mtwapa–Kwa Kazdengo–Kilifi Road

Key Contributions:

- Performed geotechnical evaluations, including particle size distribution, Atterberg limits, and Proctor compaction, ensuring foundation suitability.
- Conducted concrete mix design, strength testing, and bitumen analysis to optimize material performance and adherence to design specs.
- Assessed asphalt quality using Marshall Stability and SMA temperature monitoring, improving pavement durability and compliance.
- Inspected critical infrastructure such as pile foundations, retaining walls, and girder beams to uphold structural integrity and engineering safety.
- Executed accurate setting out using theodolites and total stations, enhancing layout precision for culverts and road alignments.

Civil Engineering Attache | January 2023 – April 2023

Kenya Rural Roads Authority – Emergency Construction of Kasikeu–Mikuyu Bridges & Approach Roads

Key Contributions:

- Executed leveling and benchmarking surveys to inform bridge siting, elevation control, and material quantity estimations.
- Investigated soil conditions and sampled construction materials, supporting alignment decisions and foundation selection.
- Supervised earthworks, concrete casting, and pavement structuring to ensure quality control and project milestone compliance.
- Monitored daily site activities and compiled inspection logs, promoting transparent reporting and timely issue resolution.

Civil Engineering Attache | January 2022 – April 2022

Technical University of Mombasa

Key Contributions:

- Laid out and prepared trench foundations through precise masonry setting out, supporting minor construction works within the campus estate.
- Repaired and fabricated doors, arches, and frames, applying carpentry techniques to enhance facility infrastructure and usability.
- Installed, joined, and maintained water systems using threading and fitting techniques, contributing to operational plumbing efficiency.
- Operated welding tools and performed basic metalwork, supporting in-house fabrication and maintenance of metallic structures.

EDUCATION

Bachelor of Science (Civil Engineering) | September 2019 – January 2025

Technical University of Mombasa

Kenya Certificate of Secondary Education | January 2015 – November 2018

Mbooni Boys High School

CERTIFICATIONS

- Autodesk Civil 3D
- Microsoft Office

LANGUAGES

☒ English – Proficient

☒ Swahili – Proficient

REFERENCES

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