

CURRICULUM VITAE

JESSE PERESO OLOIMUTIE

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PROFESSIONAL SUMMARY

Civil Engineer with a strong academic background . Currently a Master of Science in Civil Engineering Student, I aim to deliver sustainable, compliant, and cost-efficient infrastructure solutions that set industry benchmarks.

PROFESSIONAL CERTIFICATION

Engineers Board of Kenya (EBK)

- Registered Graduate Engineer (Ongoing)

CORE COMPETENCIES

- Structural Analysis & Design (Eurocodes, BS Standards)
- Technical Reporting & Documentation,
- Construction Materials Testing & Quality Control
- OSHA Compliance & Safety Management
- Preventive Maintenance & Post-Construction Support
- Stakeholder Coordination & Communication
- Project Scheduling & Cost Estimation
- Regulatory Liaison (NCA, NEMA, County Authorities)
- Risk Mitigation & Environmental Impact Analysis
- Tendering, Procurement & Contractor Evaluation

PROFESSIONAL EXPERIENCE

Dedan Kimathi University Of Technology

Trainer – Building and Civil Engineering (June 2025-Present)

- Delivering hands-on training in structural design, construction safety, and project management
- Mentoring students in technical drawing, BoQ preparation, and site supervision

Kenya Rural Roads Authority | May 2025- October 2025 (Community Road RWC 660) Site Engineer

- Supervision of inspectorate, survey and lab operations
- Materials testing standards, design manuals and standard specifications for Construction, rehabilitation and maintenance of roads.

- Participation in report compilation

**Kenya Rural Roads Authority (January 2025 – April 2025)
(Sosiokapsuser-Kipsolu Road Link-Kericho)**

- Participated in site inspections and progress meetings chaired by R.E to assess the quality of materials and workmanship.
- Site inspections under the A.R.E to evaluate construction quality and adherence to specifications.
- Participated in report compilation on the various lab tests.

Stehas Investment Limited (June 2023 – Aug 2024)

Site Engineer

- Oversaw residential development projects, ensuring regulatory compliance and adherence to Kenyan building codes.
- Conducted site assessments and developed conceptual plans.
- Obtained necessary permits and ensured regulatory compliance.
- Developed detailed construction drawings and specifications.
- Prepared as-built drawings reflecting final project details.
- Prepared budgets, bills of quantities, and schedules, reducing cost overruns

Kenya Urban Roads Authority (KuRA)-South B, Nairobi (August 2023)

Apprenticeship

- Conducted project monitoring and evaluation (M&E).
- Supervised the construction of community facilities, ensuring quality and adherence to environmental standards.
- Supervised projects and performed measurements for payments.
- Prepared and interpreted Bills of Quantities.
- Conducted environmental impact analysis and reporting.
- Assisted in the tendering and procurement process.

State Department of Infrastructure Materials Testing and Research Division Nairobi

Apprenticeship (May 2023 – July 2023)

- Conducted Testing, calibration, and verification of precision instruments to comply with the provisions of both the Standards Act and the Weights and Measures Act;
- Participated in pavement checks for road upgrading, reconstruction, and rehabilitation
- Construction quality control, post construction evaluation of completed road works;
- Maintenance of pavement construction and maintenance data base for public roads;
- Participated in monitoring functional and structural performance of road pavements including axle load and pavement condition surveys on public road.

**Advanced Design and Manufacturing Training Center (ADMATC) – DeKUT
(May 2023– July 2023)**

Technical Trainee

Plumbing,
Machine Laboratory,
Electrical wiring and installation,
Masonry and CAD software.

FREELANCE PROJECTS (2022–2025)

Structural Engineer & Designer

Delivered over 15 architectural and structural designs for residential, commercial, and institutional developments across Kenya and Uganda.

Key Achievements:

- Designing and planning for 4 storey residential apartments in Mugutha
- Led the structural and architectural design of a 600-capacity educational facility in Laikipia, focusing on safety and accessibility for the learners.
- Executed cost-efficient and eco-friendly designs for modern maisonettes and residential apartments in Nyeri, Malindi, Gatuanyaga, Masinga, Kiambu, Nkunene, Juja and Budaka in Uganda, integrating sustainable materials and passive cooling techniques.
- Optimized resource utilization, reduced project costs, and ensured environmental compliance throughout.

ACADEMIC & RESEARCH HIGHLIGHTS

Dedan Kimathi University of Technology DeKUT

- **Master of Civil Engineering (Structural Option), 2025–Present**

Major course highlights include *Structural Materials, Advanced Structural Analysis, Advanced Structural Design, Matrix Methods of Structural Analysis, Behaviour and Design of Steel Structures, Advanced Structural Concrete Design, Pre-Stressed Concrete, Structural Dynamics, and Disaster Management.*

- **Bachelor of Science in Civil Engineering – First Class Honors, 2020–2025**

Major academic course highlights include *Structural and Materials Engineering, Foundation and Geotechnical Engineering, Public Health and Environmental Engineering, Transportation, Traffic and Highway Engineering, and Hydraulics and Water Resources Construction, Engineering Surveying, and Project Management.*

St. Patrick's Iten National School – KCSE: A- (76 points)

Missionary Conerstone – KCPE: 403 marks

RESEARCH PUBLICATIONS:

1) Effects of Coral Sand Powder on the Strength and Durability Properties of Crushed Limestone Aggregate Concrete (2025) *Published in Advances in Materials Science and Engineering*. <https://doi.org/10.1155/amse/9570810>

a. Used XRF, SEM, and EDS to demonstrate that a 6% coral sand powder additive significantly improves strength, pore structure, and sulphate resistance in limestone-based concrete.

2) Mechanical and Microstructural Properties of Clay Tile Waste treated with Silica Fume (2025) *Published in Advances in Materials Science and Engineering*.

<https://doi.org/10.1155/amse/4341855>

a. Research substantiates the potential of utilizing CCTW and SF in concrete applications, contributing to a circular economy in the construction sector and promoting sustainable practices by reducing landfill waste while maintaining material performance standard.

TECHNICAL SKILLS

- **Design Software:** ArchiCAD, Protas, Prokon, TEDDS, MIDAS Gen
- **Project Tools:** MS Project, Excell
- **Documentation:** BoQs, Technical Reports, M&E Frameworks
- **CAD & Drafting:** AutoCAD, Excel-based structural templates
- **Compliance Tools:** OSHA checklists, NEMA reporting formats

PROJECT MANAGEMENT SKILLS

- Project Planning and Scheduling
- Budgeting and Cost Control
- Bill of Quantities Preparation and Resource Optimization
- Technical Documentation, Monitoring, and Evaluation (M&E)
- Tendering and Procurement Processes
- Risk Mitigation and Quality Assurance
- Facility Maintenance and Repair Coordination
- Proficiency with Project Management Tools: MS Project and Excell

REFEREES

Available upon request