

Dondylan Mogire

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1 Profile

Civil Engineering student at Dedan Kimathi University of Technology with a robust background in web development and civil engineering. Proficient in HTML, CSS, JavaScript, and Bootstrap, with experience in developing responsive websites, point-of-sale (POS) systems, and assisting businesses with digital advertising solutions to enhance their online presence. Skilled in applying technical expertise in surveying, road design, and material testing, complemented by basic knowledge of C++ programming. Passionate about integrating engineering and software solutions to deliver innovative, user-focused outcomes.

2 Work Experience

Attachee, Kenya Rural Roads Authority

Kisii, Kenya

February 2025 – April 2025

- Conducted laboratory tests including Field Dry Density (Sand Replacement Method), Proctor Test, Marshall Stability Test, California Bearing Ratio (CBR), and Cube Crushing Test to assess material and concrete strength.
- Performed site inspections for asphalt laying, cement stabilization, earthwork processing, pre-levelling, bush clearing, and box culvert construction.
- Executed surveying activities such as levelling using a dumpy level, offsetting, and dippings.
- Utilized Civil 3D for road design, including importing topographic points, creating point groups, surfaces, alignments, profiles, assemblies, curb returns, and corridors.

Attachee, China Wu Yi Co Ltd

Kirinyaga, Kenya

January 2024 – April 2024

- Controlled levels and set out for road layers and drainage works using RTK machines to pick coordinates and determine culvert invert levels.
- Processed earthworks and laid Graded Crushed Stone (GCS) and Dense Bitumen Macadam (DBM) for road bases.
- Conducted material sampling, sieve analysis, field density tests, Atterberg limits, concrete slump tests, cube crushing, and aggregate tests (FI, ACV, AIV, LAA, SE, TFV).
- Performed asphalt work using the Marshall Method to ensure quality road surfaces.
- Developed a simple internal web-based tool using HTML, CSS, and JavaScript to track material inventory, improving project efficiency.

Attachee, Dedan Kimathi University of Technology

Nyeri, Kenya

February 2023 – April 2023

- Surveyed electrical installations, plumbing, carpentry, and construction activities to support university infrastructure projects.
- Created a basic website using HTML, CSS, and Bootstrap to document project progress, enhancing communication with stakeholders.

3 Web Development Projects

- **Personal Portfolio Website:** Designed and developed a responsive portfolio website using HTML, CSS, JavaScript, and Bootstrap, showcasing civil engineering projects and web development skills, with interactive features like a contact form and particle animations.
- **Point-of-Sale (POS) System:** Built a web-based POS system for small businesses using HTML, CSS, JavaScript, and Bootstrap, enabling efficient transaction processing and inventory management.
- **Business Advertising Support:** Assisted local businesses in Kisii by creating landing pages and integrating social media links using HTML, CSS, and JavaScript to boost their online visibility and customer engagement.

4 Education

Bachelor of Science in Civil Engineering Dedan Kimathi University of Technology, Nyeri, Kenya
April 2020 – Present (Expected Graduation: 2026)

Kenya Certificate of Secondary Education Mbita High School, Kenya
January 2017 – May 2020

Kenya Certificate of Primary Education Nyakoe Highway Primary School, Kisii, Kenya
January 2009 – November 2016

5 Skills

- **Web Development:** HTML, CSS, JavaScript, Bootstrap; experienced in building responsive websites, POS systems, and digital advertising solutions
- **Programming:** Basic C++ for simple applications
- **Civil Engineering Tools:** Civil 3D, AutoCAD
- **Laboratory Testing:** Field Dry Density, Proctor Test, Marshall Stability, CBR, Concrete Cube Crushing, Sieve Analysis, Atterberg Limits
- **Surveying:** Levelling (Dumpy Level, RTK), Offsetting, Coordinate Mapping
- **Productivity Tools:** Microsoft Office (Excel, PowerPoint, Word), Google Suite (Drive, Docs)
- **Soft Skills:** Strong communication, organizational and planning skills, motivated, teamwork

6 Language Skills

- **Mother Tongue(s):** Gusii, Swahili
- **English:** Proficient (C2 in Listening, Reading, Speaking, Writing)

7 Digital Skills

- Proficient in Microsoft Office, Microsoft Excel, Microsoft PowerPoint, Google Drive, Google Docs
- Experienced with Zoom, Skype, LinkedIn, Instagram, and social media platforms