

SAMWEL MATUNDA NYAGAKA

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PROFESSIONAL PROFILE

A dedicated Second-year Electrical and Electronics Engineering student with a rapidly growing foundation in practical electrical installation and circuit design. Combines strong analytical skills with hands-on experience in domestic wiring and electronic prototyping. Proven ability to produce accurate technical reports and deliver clear presentations using Microsoft Office tools. Eager to apply academic learning and practical skills in a challenging engineering environment.

EDUCATION

Bachelor of Science in Electrical and Electronics Engineering Chuka University, Kenya | September 2024 – Present

- **Academic Performance:** Consistently good grades with a strong focus on mathematics, physics, and technical subjects.
 - **Key Competencies:** Technical reporting, data analysis, and research presentation.
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TECHNICAL EXPERTISE & PRACTICAL SKILLS

Based on recent laboratory and workshop experience.

1. Electrical Installation & Wiring

- **Circuit Configuration:** Proficient in wiring Ring Main circuits and installing metering equipment for power monitoring.
- **Switching Systems:** Skilled in installing Intermediate Switching and Two-Way Switching systems.
- **Lighting Circuits:** Practical experience configuring Series and Parallel lighting points to demonstrate voltage/current variation.

2. Electronics & Circuit Design

- **Component Logic:** Understanding of integrated circuits, specifically clock pulse generation and sequential logic.
 - **Prototyping:** Hands-on experience assembling circuits using breadboards and discrete components.
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KEY PROJECTS

Sequential LED Chaser Circuit | Personal Technical Project

- **Objective:** Designed a visual electronic display using sequential logic.

- **Technical Implementation:** Utilized a **555 Timer IC** to generate stable clock pulses. Fed the signal into a **4017 Decade Counter IC** to drive a sequence of LEDs, lighting them one at a time.
- **Outcome:** Successfully demonstrated the practical application of timing circuits and pulse counting.

Academic Research & Presentation | Chuka University

- Created and delivered structured class presentations using PowerPoint to visualize research findings.
 - Authored detailed technical reports in Microsoft Word, utilizing tables and formatting to present complex data clearly.
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ADMINISTRATIVE & COMPUTING SKILLS

- **Office Suite:** Advanced proficiency in Microsoft Word (structured reports, formatting) and PowerPoint (visual summaries).
 - **Data Handling:** Fast and accurate typing skills with experience in data entry and low-error transcription.
 - **Research:** Strong capability in internet research and information gathering.
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LANGUAGES

- **English:** Averagely Fluent
 - **Swahili:** Fluent
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INTERESTS

- **Technology:** Passionate about continuous self-improvement through online learning and practical engineering projects.
- **Music:** Playing the keyboard.