

# Timothy Maina

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## Electrical Engineering Student

Electrical Engineering student at **Dedan Kimathi University of Technology (DeKUT)** with a solid foundation in electrical engineering principles, electrical circuits, and practical installations. Demonstrates understanding of AC/DC systems, basic power distribution, electrical machines, and protection devices, with hands-on exposure to electrical wiring, lighting systems, distribution boards, earthing, and basic motor control circuits. Familiar with testing, fault diagnosis, troubleshooting, and maintenance using standard electrical tools, while adhering to safety standards and technical drawings to apply theory effectively in real-world engineering environments.

## Work Experience

### Electrical Engineering Student (Laboratories & Internal Attachment)

#### Dedan Kimathi University of Technology (DeKUT)

*During Course of Study*

- Actively participated in **electrical engineering laboratories and internal attachment programs**, gaining hands-on experience in **electrical circuits and installations**.
- Performed **single-phase and three-phase circuit installations**, wiring, testing, and verification of electrical systems in controlled lab and workshop environments.
- I worked with **MATLAB** for circuit analysis, simulation, and verification of electrical engineering concepts.
- Gained practical exposure to **electrical machines**, including **DC motors, AC motors, transformers, and generators**, focusing on operation, testing, and performance analysis.
- Involved in **PCB design and fabrication**, including schematic design, component placement, and basic troubleshooting.
- Assisted in **testing, fault diagnosis, and maintenance** of electrical systems using standard electrical instruments and safety procedures.
- Applied **programming skills in Python, C++, and Arduino (embedded programming)** for basic control systems, simulations, and hardware interfacing tasks.
- Strengthened understanding of **electrical safety standards, laboratory procedures, and technical documentation**, while working collaboratively in team-based practical sessions.

## Education

Dedan	Kimathi	University	of	Technology	(DeKUT)	
Nyeri, Kenya						
Bachelor	of	Education	(Electrical	&	Electronics	Engineering)
2023 – Present						

## Skills & Technologies

- Backend:** Python, Django, Node.js, REST APIs, Next.js, JSON
- Frontend:** HTML, JavaScript, TypeScript, React, Tailwind CSS, CSS5
- Tools:** AWS, Git, VS Code, Postman, Thunder client, courser ai
- Machine Learning & AI:** TensorFlow, LLMs (GPT-4, Gemini, Llama), Hugging Face (fine-tuning), Lang Chain, Lang Smith, LangGraph, Ollama, RAG

- **Database:** MongoDB, PostgreSQL, MySQL
- **DevOps:** CI/CD, GitHub actions, Jenkins, Azure, Docker
- **Languages:** English (Fluent)

## Career Goals

To remain adaptable in the ever-evolving world of technology by embracing internships as opportunities to learn, contribute, collaborate, and innovate. Focused on continuous growth through hands-on experience in Full-Stack Software Engineering, Machine Learning, and Agentic AI workflows (Lang Chain, Lang Smith, LangGraph, Ollama, RAG, and Hugging Face fine-tuning). Committed to advancing my capabilities, exploring cutting-edge solutions, and building impactful, intelligent software that addresses real-world challenges.