

# NOVAAL MACKENZIE SMOLLO

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## ELECTRICAL AND ELECTRONICS ENGINEER

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- As a dedicated electrical and electronics engineer, I am constantly pursuing new opportunities to enhance my expertise. With a strong determination to succeed, I am well-equipped to tackle the challenges in this technical industry and dedicated to ensuring high-level electrical functionality and safety.

### Areas of Expertise

Applied Science and Electrical Principles | Analog and Digital Electronics | Electrical and Solar installation | Industrial machines and controls | Estimating, Tendering and Design | Electrical Maintenance and Fault Diagnosis | Technical Drawing and Interpretation | Workshop Organization and Management | Information Communication Technology (ICT) | Internet of Things (IOT) | Data collection and Data entry | Effective Communication Skills | Engaging Team player

### EDUCATION & TRAINING

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**Zetech University** – Certificate in Electrical and Electronics Engineering – CREDIT (2021 – 2023)

– Certificate in Project Development. (2022 – 2023)

**Mbale High School** – Kenya Certificate of Secondary Education (2015-2018)

**Ukwala Primary School** – Kenya Certificate of Primary Education (2007 - 2014)

### PROFESSIONAL EXPERIENCE

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**Engineering Intern | Jettech Electricals and Electronics**

**September 2023 – June 2024**

As an Electrical and Electronics expert, I specialized in component repairs, analytics, and maintenance. Successfully completed several installations that improved systems efficiency and reduced downtime, including installation of wiring and electrical systems, various household accessory installations, digital component and gadget maintenance.

#### Key Contributions:

- Maintenance and repair of electrical equipment such as phones, radios, TVs, and other electronic accessories.
- Installation of wiring and electrical systems, including connecting and securing wires, cables, conduits, panels, breakers, switches, outlets, fixtures, and appliances.
- Installing electrical accessories
- Technical support.

**Project Development| Zetech University**

**March 2022 – June 2022**

#### PROJECT TITLE: Cell-phone fingerprint Door lock (CFD System)

Fingerprint locks are considered one of the most secure biometric security methods. This new invention enables biometric fingerprint locks to be accessed using the smartphone's built-in fingerprint scanner via a dedicated app. The app creates a wireless connection with the locking mechanism, utilizing a Bluetooth module to link the cell phone with the locking mechanism.

An Arduino processor is employed to interpret the signal from the phone thus eliminates the need for a separate fingerprint scanner to be installed on the door lock, resulting in a more personalized and secure system.

## **REFEREES**

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