

## **DERICK OGUTU**

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### **Electrical and Control Engineer | Software Engineer**

Electrical Engineer | Instrumentation and Control Engineer | Automation Engineer | Software Engineer | PLC Programmer and HMI Systems.

## **PROFESSIONAL PROFILE**

Am a result driven and goal-oriented engineer who is passionate and committed at excelling in every task and ready to learn. Recently completed my studies at Egerton University where I was pursuing Bachelor of Science in Instrumentation and Control Engineering now awaiting graduation. I have a strong academic foundation in Instrumentation and Control Engineering. I am passionate and enthusiastic about Industrial Automation, HMI systems & SCADA, IoT, Control Systems, and creating software solutions through coding.

### **Professional Strengths**

- i. Deep understanding of Industrial Automation, HMI systems, SCADA and Control Systems.
- ii. Proficient in programming languages (Python, Dart with Flutter, Database Design and Programming with SQL, JavaScript, HTML, CSS)
- iii. Understanding of Engineering Principles and Methodologies
- iv. Understanding of Electrical Circuits, and knowledge of mathematical modelling and simulation software (Simulink)
- v. Experience with Data Analysis and Interpretation

### **Social Skills**

- i. Insightful: Posses a deep understanding in engineering and technology thus able to package myself based on industry needs.
- ii. Communication: Astute communicator accomplished through exchanging ideas, thoughts, knowledge and information ensuring the purpose or intention is fulfilled in the best possible manner.
- iii. Active listening: Posses a great virtue in listening, always open to learn and embracing new and relevant idea
- iv. Teamwork and Collaborative ability
- v. Time management and organizational skills
- vi. Ability to work independently and take initiative

## **PROFESSIONAL EXPERIENCE**

### **SMART SOLAR PLANT**

November 2023 - Date

#### **Remote Monitoring and Control of a Solar Plant**

Proposed and implemented a project on remote monitoring and control of a solar plant as my final year project.

#### **Key Objectives:**

- i. Designed a Smart Charge Controller
- ii. Remotely monitored and controlled Solar parameters in real-time
- iii. Implemented a Changeover System by controlling power production

### **CAPSTONE PROJECT**

November 2023

#### **Personal Portfolio Website**

As my final capstone project in ALX Software Engineering School, I successfully developed my Personal Portfolio Website.

### **KPLC ATTACHMENT**

May – August 2023

Was privileged to do my attachment at Kenya Power and Lighting Company, Nairobi (RUARAKA COMPLEX) Substation for a period of four months.

#### **Skills learnt:**

- i. Electrical Substation components and their working
- ii. GIS Substation, components and its operation
- iii. Operation & Maintenance and Design & Construction
- iv. Underground cabling, Emergency services and Customer service
- v. Telecom & ICT department, E-plant, Meter testing and Standardization
- vi. National and Regional Control

### **CYBER ATTENDANT**

April – November 2020

Developed good knowledge and skills in MS Office and Customer Service

## **ACHIEVEMENTS**

- i.** Successfully enrolled and completed my undergraduate studies in Bachelor of Science Instrumentation and Control Engineering
- ii.** Successfully enrolled and completed my certified ALX Software Engineering Course
- iii.** Proposed and implemented a Smart Solar Plant
- iv.** Learnt and continuously perfecting my knowledge and skills in Industrial Automation, PLC Programming and Coding in different programming languages.

## **EDUCATION**

- i.** Bachelor's degree in Instrumentation and Control Engineering 2019 – 2024  
(EGERTON UNIVERSITY)
- i.**
- ii.** Industrial Automation, HMI Systems and Python Dec. 2023 – March 2024  
(Udemy School)
- iii.** Software Developer Jan. 2024 – March 2024  
(Power Learn Project, PLP)
- iv.** Software Engineer June – November 2023  
(ALX SE)
- v.** High School Education 2015 – 2018  
(Kisumu Boys High School)
- vi.** Primary Education 2007 – 2014  
(Makunda Primary School)