

# BADU KOFI YESU

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## PROFILE

I am a dynamic and detail-oriented Electrical/Electronic Engineering student from KNUST with a strong foundation in smart grid with renewable integration for power systems, industrial automation and PLC programming, control and autonomous systems, troubleshooting and maintenance, circuit design and analysis. Proven through internships at Ghana Grid Company and Electricity Company of Ghana, I excel in troubleshooting, maintenance, and adhering to safety protocols under high-pressure environments. Skilled in MATLAB/ Simulink, AutoCAD Electrical, and diagnostic tools, I am passionate about applying technical expertise to innovative solutions in industries such as energy, technology, manufacturing, and equipment servicing. A collaborative team player with leadership experience, I am eager to contribute to organizational goals.

## EDUCATION

### BSc. Electrical/ Electronic Engineering

Expected September 2025

Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

### W.A.S.S.C.E (General Science)

September 2016 – September 2019

Kumasi High School, Kumasi, Ghana

## WORK EXPERIENCE

### Intern, Ghana Grid Company, Kumasi

October 2024 - December 2024

- Conducted fault analysis and troubleshooting of electrical systems using diagnostic tools, reducing downtime by 15% during peak operations.
- Collaborated with engineers to implement preventive maintenance schedules, aligning with industry standards for equipment longevity.
- Assisted in the maintenance and testing of high-voltage transmission equipment, ensuring operational reliability and safety compliance.

### Intern, Eagle Eye Engineering, Kumasi

November 2023 - January 2024

- Designed electrical systems for residential and commercial buildings, ensuring compliance with safety and regulatory standards.
- Installed security systems, including CCTV and electric fences, enhancing property safety and operational reliability.
- Performed low-voltage power transmission and industrial maintenance, applying skills relevant to industrial operations.

### Intern, Electricity Company of Ghana, Kumasi

September 2022- January 2023

- Supported maintenance of distribution transformers and electrical networks, ensuring consistent power supply to industrial clients.
- Utilized AutoCAD Electrical to update schematics for power distribution systems, improving documentation accuracy.
- Participated in safety audits and adhered to HSE protocols, contributing to zero-incident operations during internship period.

## ACHIEVEMENTS/AWARDS

Most Versatile Student

22<sup>nd</sup> August 2024

KNUST ELEESA

Most Outstanding Regional Leader

27<sup>th</sup> November 2023

Youth Arise Organization

## PROJECTS/RESEARCH EXPERIENCE

- RF Energy Harvesting System for Sustainable Applications ,KNUST**
- Designed and prototyped an RF energy harvesting circuit to power low-energy devices, achieving 80% efficiency in energy conversion.
- Conducted field tests to optimize antenna design for improved energy capture, applicable to remote machinery monitoring systems.

- **Power System Simulation for Grid Stability, KNUST**
- Developed a MATLAB/ Simulink model to analyze voltage stability in a micro-grid, proposing solutions for renewable energy integration.
- Presented findings to faculty,demonstrating applicability to real-world power systems in Ghana's energy sector

## PROFESSIONAL TRAINING/ CERTIFICATION

Fundamentals of Smart Grid Engineerin	April - May 2025	Coursera
Electrical Safety and HSE Compliance	March - May 2025	Coursera
PLC Programming and Industrial Automation	September 2024	KNUST Automation Lab
Sensing solutions & AI for Sustainability	August 2024	IEEE KNUST
Aspire Leaders Program, Aspire Institute	March - June 2024	Aspire Institute
Artificial Intelligence Career Essentials	April - June 2024	Alx Ghana
Virtual Assistant 2024	July - August 2024	Alx Ghana
Leadership Diary Training Program	October - November 2019	Youth Arise Organization

## LEADERSHIP EXPERIENCE

### Ambassador (January 2022 - Present )

#### United Youth Arise System

- Attend publicity and register participants for the Leadership Diary Training Program.
- Attend conferences and workshops on leadership, personal development and growth.
- Astute member and project lead for the Stem Explorers Network bootcamps.

### Ashanti Regional Coordinator ( June 2023 - January 2024)

#### United Youth Arise System

- Coordinated the Leadership Diary Training Program for SHS graduates and tertiary students.
- Supervised all regional and campuses activities and accountability.
- Oragnized the Orange Youth Festival to celebrate the talent and ingenuity of over 200 young people in Ghana

### Project Coordinator (August 2023-December 2023)

#### Living Springs Foundation

- Planned and scheduled annual charity and mentorship for the foundations.
- Spearheaded the maiden charity and community outreach project for over 5 deprived communities in the Ashanti Region.
- Organized mentorship seminar for 120 JHS and SHS students in the Ashanti Region .

## VOLUNTARY/EXTRA-CURRICULAR ACTIVITY

- **Youth Arise Organization - Workshop Assistant ( October 2021 - Present)**
  - Enrollment adviser and logistics officer for the Leadership Diary Training Program.
  - Serve and offer needed assistance to over 150 participants every during LDTP workshop
- **ELEESA Peer Mentor ( January 2023 - Present)**
  - Support and offer academic guidance to first year year students in the Electrical/ Electronic Engineering department

## SKILLS AND ABILITIES

- **Software:** MATLAB/Simulink, Multism, Proteus, AutoCAD Electrical, Wireshark, VSCode , TinkerCad, Microsoft Office Suite and Latex, Wordpress, Ansys HFSS, PVSyst
- **Programming Languages:** Python, C , HTML, CSS, Javascript
- **Technical Skills:** Automation,Power Systems Maintenance, Electrical Troubleshooting, Circuit Analysis, Web development
- **Equipment:**Familiar with diagnostic tools ( multimeters, oscilloscopes),electrical safety protocol

## REFEREES

Name: Dr. Elvis Twumasi  
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