Randy Kofi Ansah

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CAREER PROFILE

Randy is an innovative, detail-oriented and dedicated individual with a strong passion for electrical engineering who possesses a multifaceted skill specializing in the design, maintenance, automation and instrumentation of high voltage distribution and transmission systems. With a proven track record of innovation, reseach and technical excellence he is commited to solve real word problems to create impactful solutions.

EDUCATION

University of Energy and Natural Resources   Sunyani, Bono Region
Program: BSc Electrical and Electronic Engineering   Sep 2018 - Oct 2022

Aggrey Memorial A.M.E Zion Senior High School   Cape Coast, Central Region
Program: General Science   Sep 2014 - May 2017

CERTIFICATES/ ACHIEVEMENTS / AWARDS

- Student Inventor of the Year, GHIE Eminence Awards, UENR — 2022
- 2024 Aspire Leaders Program, Harvard Business School — May 2024
- AI Career Essentials, ALX — Apr 2024
- Energy Production, Distribution and Safety Specialization, University of Buffalo, Coursera — Sep 2023
- Power System: Generation, Transmission and Protection Specialization, L&T EduTech, Coursera — Jul 2023
- A Practioner's Approach to Power Distribution & Automation Specialization, L&T EduTech, Coursera — Jul 2023
- Google Project Management Specialization, Google, Coursera — Jun 2022
- Engineering Project Management Specialization, RICE University, Coursera — Apr 2022
- Introduction to Sustainability, University of Illinois at Urbana-Champaign — Apr 2022
- Electric power Systems, University of Buffalo, Coursera — Jan 2022
- Electric Industry Operations and Markets, Duke University, Coursera — Jan 2022
- GMES Competition, Project Curiosity Team, 1st Runner Up — Nov 2021
- Enactus National Competition, Project Management team member, 2nd Runner up — Sep 2021

PROJECT

FINAL YEAR PROJECT: Distribution Network Reconfiguration using Genetic Algorithm   Oct 2022
- Implemented an automatic loss reduction system taking a 33 and 69 bus system as a case study using MATLAB.
- The system performs load flow analysis on the network and reroutes power to reduce power loss

WORK EXPERIENCE

Research and Development Engineer, Electricity Company of Ghana, Accra   Nov 2022 - Present
- Reviewed and developed the ECG's high tension and low voltage construction standards together with committee members.
- Conducted research on various disturbances in the electrical power system thereby reducing outages by 70%
- Performed Factory Audits and conducted factory acceptance tests on equipments and materials to be procured improving quality assurance process

Electrical Engineer Intern, Anointed Electrical Engineering Services Ltd, Accra   Oct 2021 - Dec 2021
- Designed a 5v power system circuit, Astable, and nonstable circuits to control equipment reducing power consumption by 60%
- Assisted Electrical and electronic engineers in troubleshooting and repair of equipment

Information Technology Engineer Intern, White Cross Chemicals, Accra   Sep 2020 - Dec 2020
- Sensitized users on best practices of using hardware peripherals reducing malfunctions by 50%
- Developed a stock management system to keep digital records of inventory.

Voluntary Teacher, Carobells Academy, Bortianor   May 2017 - May 2018
- Increased the computer literacy rate of students by 90%.
- Encouraged creative thinking and motivated students by addressing individual strengths and weaknesses based on standardized syllabus.

LEADERSHIP EXPERIENCE

Head, Mechatronics Interest Group, Institute of Mechanical Engineers, UENR   Oct 2021 - Oct 2022
- With the help of my colleagues we organized the inauguration of the mechatronics interest group
- Managed a team of over 50 students to learn skills revolving around robotics, embedded systems, and IoT.

Vice President, UENR Robotics Club, **University of Energy and Natural Resources**   Sep 2021 - Oct 2022
- Successfully led a team from to win the National Energy Innovation Competition with the help of my colleagues
- Managed a team of over 50 students to learn skills revolving around robotics, and the Internet of Things

Public Relations Officer, UENR Robotics Club, University of Energy and Natural Resources   May 2020 - Sep 2021
- Increased the club's social media followers by 400%.
- Improved information dissemination through social media and represented the club at interviews.

TECHNICAL SKILLS

- Softwares: AutoCAD, MATLAB, Simulink, Multisim, Revit, Dialux, Microsoft Office Suite
- Programming Languages: Python, C++
- Proficient in Data Science, Machine learning, Artificial Intelligence, Robotics and Embedded systems

VOLUNTEER ACTIVITIES

- Facilitator, Wan Hive Robotics Drive, UENR, Sunyani   Aug 2022
- Facilitator, World Engineering Day, UENR, Sunyani   Mar 2022
- Facilitator, STEM festival, UENR, Sunyani   Aug 2021
- Facilitator, GHIE skills fair, UENR, Sunyani   Mar 2021
- Facilitator, Electrical and Electronics Department Arduino Workshop, UENR, Sunyani   Jan 2021
- Facilitator, Science fair, University of Energy and Natural Resources, UENR, Sunyani   Feb 2020

HOBBIES AND INTEREST

- Engineering Research, Electrical Quality Assurance, Project Management, Maintenance and Troubleshooting, High Voltage System Design, Green and Sustainable System Design, Carbon Accounting