

JOSHUA DANTUO

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Mail: joshua.dantuo@uenr.edu.gh **Nationality:** Ghanaian **Sex:** Male **Date of Birth:** 6th march, 1992

SUMMARY

A well-equipped electrical and electronics engineer, with more than 5 years working experience in electrical power systems and electronics. Expertise include modeling and analyzing electrical and electronics circuits, power quality enhancement using FACTS device, renewable energy integrations to the grid, solar photovoltaic systems installation and maintenance, rewinding and maintenance of electrical machines, domestic and commercial wiring, air conditioning system installation and maintenance. Troubleshooting electrical and electronics faults and learning new skills are my ultimate goals as an engineer.

OBJECTIVE To work in an organization that will grant me the opportunity to use the knowledge gained to help in the productivity and management of resources.

EDUCATION**University Tun Hussein Onn Malaysia (UTHM)**

MEng. Electrical Engineering (Coursework), Feb 2019 to September 2020.

Project Title:

Optimal Placement of Unified Power Flow Controller (UPFC) in Transmission Network for Voltage Stability Improvement Using Fast Voltage Stability Index (FVSI)

University of Energy and Natural Resources (UENR)-Ghana

Bsc. Electrical and Electronic Engineering, Sept 2013 to Aug 2017.

Project Title:

Grid Connected Photovoltaic (PV) System for Domestic House in Ghana

Saint John's Senior High School, Sekondi-Ghana

West Africa Secondary School Certificate Examination, Aug 2008 to June 2012

EXPERIENCE

Feb 2021-Date

University of Energy and Natural Resources

Assistant lecturer – Department of Computer and Electrical Engineering

Feb 2019-July 2020

Electrical Engineer (Post Graduate Student)-UTHM

Research Interest:

- Power quality improvement using FACTS devices

- Renewable energy integration to the utility grid
- Electrical machines and drives modelling and design
- Application of computational intelligent techniques in power system
- Time series forecasting using computational intelligent techniques

Jan 2018-Feb 2019

Daniel Electrical Works and Rewinding, Sunyani (Fiapre)- Apprenticeship

- Rewinding and maintenance of industrial and domestic motors and generators.
- Construction and maintenance of welding machines and transformers.
- Repairs and maintenance of electrical appliances.
- Performing industrial wiring, maintenance and installation of electrical machines

Sept 2017-Aug 2018

University of Energy and Natural Resources (UENR)- Teaching Assistant (Electrical Engineering Department)

- Conducted tutorials for undergraduate students
- Prepared lecture notes for undergraduate students
- Supervised undergraduate project work
- Supervised undergraduate laboratory work

Feb 2014-Jan 2018

Pozo Electrical and Electronics, Sunyani (Fiapre) -Apprenticeship

- Sizing, installation and maintenance of standalone solar PV system.
- Installation and maintenance of air condition (AC) system
- Performing electrical installations and wiring.
- Repairing electrical appliances such as blender, fan, microwave oven, electric generator etc.

March 2016-Feb 2017

Master Half Auto Electricals-Sunyani (Magazine) -Apprenticeship

- Troubleshooting electrical wiring systems in Automobiles.
- Repairing and replacing electrical components such as starter motor, alternators, batteries, fuel pumps in automobiles.

June 2016-Aug2016

Tema Oil Refinery (TOR) (Power-House Department)-Internship

- Assist in boiler, turbine, generator and motors start up and shut down.
- Assist in the detection and repairing of faults in induction motors and electrical wiring systems across the refinery.

June 2015-Aug 2015

Electricity Company of Ghana (ECG), Wiawso District (Maintenance Department)- Internship

- Assist in transformer mounting, insulation resistance testing, and transformer load monitoring.
 - Troubleshooting faults on High voltage and low voltage lines.
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June 2014-Aug 2014

**Electricity Company of Ghana (ECG), Juaboso District (Maintenance Department)-
Internship**

- Assist in HV and LV transmission and distribution line extension.
 - Weeding and cutting down trees behind and under the high and low tension lines.
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Ongoing Research and Publications:

- Optimal Allocation of UPFC in Transmission Network for Voltage Stability Improvement
- Fuzzy Logic Based Speed Control of Separately Excited DC Machine
- Speed Control of Separately Excited DC Motor Using Four Quadrant Chopper Drive
- Noise Attenuation in ECG Signals Using IIR and FIR Bandpass Filters
- Dynamic Voltage Restorer for Voltage Sag Mitigation in Distribution Network
- MPPT Controller for Tracking Maximum Power in Solar Photovoltaic System

Book Chapter:

Muhammad Saufi Kamarudin, Ali Ateya, **Joshua Dantuo**, Rahisham
(2019) Testing Techniques For High Voltage Transformers, High Voltage Technologies - Series 2, UTHM, 20, ISBN:9789672306771

SKILLS

Applications: MS Word, Excel, PowerPoint, MS Visio and LATEX.

Engineering Tool: MATLAB/Simulink, Multisim, AutoCAD, MATPOWER, PSCAD, Quartus II, PSAT, Etap, JMAG Express

Programming Languages: C and C++ programming

COMMUNICATION Fluent in English, Akan

REFERENCE**Prof. Madya TS. Dr. Kok Boon Ching**

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