KWAME DONKOR

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EDUCATION & CERTIFICATIONS

University of Washington, *Seattle, WA* *September 2023 – June 2027 (Expected)*
Doctor of Philosophy, Electrical and Computer Engineering (ECE)

- Current GPA: ***3.98***
- Relevant coursework (through Autumn 2024): Power Systems Analysis, Power Electronics Design, Power Systems Dynamics and Protection, Wind Energy, Power System Economics.

Kwame Nkrumah University of Science and Technology, *Kumasi, Ghana* *September 2013 – June 2017*
Bachelor of Science, Electrical/Electronic Engineering

- GPA: ***3.92***; First Class Honours; Top 5% of graduating class; **Provost's Excellent Student Award** (two years).
- Relevant coursework: Substations and Transmission Line Design, High Voltage Engineering, Power Systems Operation and Control, Industrial Automatic Control.

Project Management Institute, *Certified Project Management Professional* *February 2022 – February 2028*

TECHNICAL PROFICIENCIES

- Programming & Simulation Software**:** *Python, Git, PowerWorld, Siemens TIA Portal, Rockwell RSLogix 5000*
- Computer Aided Design: *AutoCAD Electrical, Dialux Evo, EPlan Electric, Helioscope, SAM*
- Microsoft Office Suite: *Word, Excel, Project, Powerpoint*
- Fluke Calibration & Testing Equipment: *Multimeter, Thermal Imager, Power Quality Analyzer, Loop Calibrator, Energy Logger, Insulation & Earth Ground Tester*

SUMMARY OF QUALIFICATIONS

- Strong foundation in electrical systems design, installation, and troubleshooting with expertise in low and medium voltage equipment.
- Skilled in Solar PV system design, installation and commissioning large and residential grid-tied and standalone systems.
- Proficient in industrial controls, PLC programming, SCADA system configuration, and instrumentation for industrial automation.
- Hands-on experience in power system analysis, energy metering and fire detection systems.
- Competent in project management, including planning, budgeting, and execution of electrical and automation projects.
- Proven ability to work collaboratively in multidisciplinary teams on complex projects.

RELEVANT EXPERIENCE

Teaching & Research Assistant, Interdisciplinary Energy Analytics for Society Lab, University of Washington, Seattle, WA *September 2023 – Present*

- Conducting research to investigate the intersection of grid resilience of power systems, weather events and social vulnerability in Sub-Saharan Africa through rigorous data analytics and model development.
- Facilitated lab sessions for a class of about 25 students and explained core photovoltaic (PV) concepts such as maximum power point tracking, DC to AC conversion and simulation of various power grid system scenarios using PowerWorld.
- Supported course instruction by preparing & editing lab standard operating procedure (SOP) documents and grading lab reports.

Automation & Controls Engineer, Process and Plant Automation Ltd *September 2017 – June 2023*

- Directed field teams on electrical and automation projects, including the installation and commissioning of residential & large-scale solar PV systems, PLC and MCC panels, medium and low voltage transformers & switchgear, fire suppression systems, and soft starter systems.
- Configured, tested, and commissioned a 33kV, 2MW solar PV system with a SCADA monitoring system and 33 grid-tied inverters, achieving in an annual savings of $576K for a leading agro-processing company.
- Led a team of 15 in installing over 4,000 LED fixtures and 99 smart meters across six institutions, enabling remote energy monitoring as part of an $800K energy efficiency initiative spearheaded by a government agency.
- Worked closely with the site construction manager to coordinate team activities and oversee mechanical, electrical and plumbing (MEP) works from project initiation for a 12MW Tier IV Data Center.
- Supervised a team of six in the upgrade from a 500kVA to a 1MVA transformer for a major food and beverage company; overseeing cabling, termination, commissioning and post-installation monitoring.
- Conducted troubleshooting and maintenance of electrical systems, enhancing operational efficiency of client processes.
- Managed project timelines, budgets, and reporting, providing regular updates to stakeholders and conducting post-project reviews.
- Prepared detailed as-built drawings, technical reports, and documentation to ensure accurate project closeout and ease of future maintenance.

ADDITIONAL EXPERIENCE

Team Leader (Quileute Tribal School), STEM Alternative Spring Break Program, University of Washington, Seattle, WA January 2025 – Present
Research Mentor, Summer Undergraduate Research Program, University of Washington, Seattle, WA July - August 2024
Member, Ghana Institution of Engineering, Accra, Ghana August 2022 – Present