P H I L I P A D E B O

Summary Statement:

Experienced engineer with strong and successful background in electrical engineering academics (teaching students from various social and cultural backgrounds), research (currently researching on power system smart grid and micro-grid) and industry.

Accomplishments

- Published peer-reviewed journals at *IEEE* military communications conference
- Improved the secrecy rates and channel capacity of wireless networks using cooperative relay system
- Developed and managed an electrical safety system for equipment used in electrical and control research laboratories at Texas Southern University.
- Developed and designed power system platform plans for use in the oil and gas industry
- Managed a communication switching cell-site for call processing and routing between different service provider

Employment

2014-Present	*Texas Southern University*, Houston Texas Instructor
2012-2013	*Upstream Engineering & Amazon Energy*, Houston Texas Electrical & Instrumentation Engineer
2012-2012	*Air Force Research Laboratories* [AFRL], New York Project Engineering Intern
2008-2011	*Sercel Inc*., Houston Texas Sensor technical support
2000-2007	*Bourdex Telecoms (Visaphone)* of Nigeria, Rivers State Head, field service Engineer, Installation and support

Education:

Expected-2017	Ph.D. in Electrical Engineering Prairie View A&M University, Texas Dissertation: Proposed research on power system smart grid and micro-grid Advisor: Dr. Cofie Penrose
2013	M.S. in Electrical Engineering Prairie View A&M University, Texas Thesis: Improving Ergodic Capacity and Secrecy Rates Of Wireless Sensor Networks Using Cooperative Relays Advisor: Dr. Annamalai, Annamalai
2000	Bachelors in Electrical and Electronics Engineering Federal Polytechnics, Nigeria,

Relevant Skills

- Over 5 years' experience in research, system design and development
- Software: ETAP, Matlab, Microsoft Office
- Parts and operations of PLC **(**Programmable Logic Controller)
- AutoCAD Basic

Professional Experience

Texas Southern University, Houston TX
Instructor (Aug. 2014 – Present)
I teach core Electrical and Computer engineering courses (AC Circuits and DC Circuits analysis, AC and DC Laboratory experiments and C++ Programming). Prepare experimental procedure, setup experiment apparatus, provides introduction to the experiments, and responds to questions as they arise in experiments. Grading and posting grades. Lab instructor for Electrical and Computer Engineering (ECE) faculty, teaching courses with laboratory assignments and guide the students utilizing the instructional laboratories. Managed in the acquisition of new laboratory equipment by test-runs and verification, installation of the equipment in compliance with safety and governmental regulations; identify areas where facility upgrades are necessary and provide cost-estimates for implementing improvements. Works with Professors in ensuring academic standards are maintained, and performs other related duties

Upstream Engineering & Amazon Energy**,** Houston, TX
Electrical Engineer & Instrumentation (Dec. 2012 – Dec. 2013)
Worked on general instrument deliverables, including instrument indexes, (I/O) list, signals, instrument loop, and hook-up and wiring diagrams. Updated vendor drawings on single line diagram arrangement schematics. Used (ETAP) power system software for power system studies, i.e. power flow, short circuit. Participated in project management workflow, vendors schedule, and HAZOP review. Applied sourcing techniques to existing and new automation and oil and gas projects. Wrote equipment purchase requisitions, vendor drawing and calculation checks.

Air Force Research Laboratory [AFRL], New York
Project Engineering Intern (June 2012-Aug. 2012)
Worked on neuromorphic computing system researching cognimem (cognitive memory) chip, a high performance cognitive computing system essentially for pattern recognition. Established communications link between microcontroller and cognimem prototype chip using I2C protocol configured cognimem V1KU to train for categorization of objects in controlled conditions

Certification:
Certified Engineer-in-Training [EIT], Texas Board of Professional Engineers (Mar. 2011)

References:

Dr. Sadiku, Matthew	email: mnsadiku@pvamu.edu
Dr. Annamalai, Annamalai	email: aaannamalai@pvamu.edu
Dr. Cofie Penros	email: pscofie@pvamu.edu