Moses Dolo

Sr. Substation & Planning Engineer - LIBERIA ELECTRICITY CORP

Ardmore, PA - Email me on Indeed: indeed.com/r/Moses-Dolo/f92015b6a3a82863

Results oriented Electrical Engineer with extensive expertise across a range of business functions supporting the technical design, planning, execution, and project management of multi modal transportation, and utility power system projects. Proven ability to leading varied opportunities from concept to implementation through job responsibilities. Possess excellent analytical and interpersonal skills for building relationships with stakeholders

Graduate studies and formal technical training courses. I am currently servicing in the capacity as Substations Manager with the Liberia Electricity Corporation and its Contractor, the Manitoba Hydro International. I have extensive experience with railcars propulsion subsystem, experience with rail Primary & Auxiliary Powers, Traction power system, fraction brake controls system, Automatic Train Control (ATC) and the Metro communication system with the Washington Metropolitan Area Transit Authority (WMATA) and the South-eastern Pennsylvania Transportation Authority (SEPTA). Instrumentation and Controls (I&C), experience with the US Navy Aircraft Carrier Northrop Grumman Newport News Shipbuilding
Authorized to work in the US for any employer

WORK EXPERIENCE

Sr. Substation & Planning Engineer

LIBERIA ELECTRICITY CORP - April 2012 to Present

April, 2012 to Present Liberia, West Africa
Sr. Substation & Planning Engineer
I am currently servicing in the capacity as Substations Engineer/ Planning Manager with the Liberia Electricity/ Manitoba-Hydro International. Supporting the development of projects documents for the design of transmission and distribution of 66/22kv sub-transmission expansion projects within three major economic corridors in Liberia
Providing technical support to Contractors for the design and construction of 88Megga Watts (MW) run of river at the Mount Coffee Hydro power plant
Supervised the maintenance and operations of the existing 66/22kv distribution substations and supporting the design of and construction of nine additional substations within the network .Developed single line diagram showing inter-connections of all subsystems and its basic components within the network
Developed the Terms of Reference (TOR) document to be used in the evaluation and hiring of a consultant to provide service to the design of Supervisory Control and Data Acquisition (SCADA) and Load Dispatch Center that define full scope of SCADA connections requirement for 66/22/33kv Substation and generation plant covering the various aspects of the SCADA systems for the network.
Developed maintenance and inspections procedures for Substations Maintenance Technicians and Stations Operators on duty for the utility network for manually recording in real time the houly status of each 66/22kv feeder loads.
Developed the Teams of Reference (TOR) for the hiring of a Substation Operation and Reliability-Center Maintenance (RCM) training Consultancy to provide training to Substations Technicians and Operators on the SIEMENS protections and communication equipment at the various substations within the network

Railcars Electrical System Engineer

Washington Metropolitan Area Transit Authority - Washington, DC - 2001 to 2011

Provided engineering, and project management, support in the development of technical specifications and design of various rail car subsystems.

• Developed diagnostic test procedures for rail car subsystems, including Primary and Auxiliary Power and, Propulsion Control Systems, Automatic Train Control System, Friction Brake System, Door Control Systems, Vehicle Monitoring Systems, Communication Systems and HVAC System,

• Interfaced with vendors for the selection of components for the Metro railcars series subsystems

• Developed Engineering Modification Instructions (EMI) manual for various power requirement for Metro (CAF, Breda, Rohr and the Alstom) railcars series

• Prepared Engineering Test Plan (ETP) and Maintenance Service Instruction (MSI) to be utilized as test procedures for overhauling various subsystems components of the Metro railcars.

• Lead project Engineer in the developing of the Communication Control Panel (CCP) for the upgrade of the Metro fleets with Motorola XTL5000 Radio for system wide compatibility across the Metro railcars system.

• Developed Engineering Test Plan (ETP) manual for wiring and procedure that will strengthen a circuit path and eliminate frequent repairs of the HVAC Control System

• I was assigned as the Contracting Officer Technical Representative (COTR) to monitor the design and installation of the Condenser Fan Motors and the HVAC compressor motors as part of the capital improvement project on the existing One Thousand series railcars system

• I ensured the design and development of prototype Communication Control Panel (CCP) and the Auxiliary Microphone and installation to the existing Communication Control Panel.

Electrical System Engineer

Northrop Grumman - Newport News Shipbuilding - Newport News, VA - 1999 to 2001

Provided engineering design and developmental support for U. S. Naval Aircraft Carrier Electrical Propulsion Plant Monitoring and Control Department including;

• Design of Automation and Control Systems for the low and high voltage power requirement for the Propulsion Plant

• Supported the conceptual and detail design of the Propulsion Plant Monitoring (PPMC) for the Shipboard power distribution system.

• Developed smart sensors list for the steam Plant Instrumentation and Controls (I&C) for the Reverse Osmosis pre treatment

• Developed the protection and control equipment energy requirement procedure for the electrical loads that require continuous power at each Switchgear

• Provided support to the development of shipboard electrical power specification for providing power throughout the switchboard and power panel.(Network Automation, PLC integration, Data logging)

• I developed a conceptual block diagram for the Distribution Control System (DCS) for the Propulsion Plant Monitoring and Control (PPMC) Systems to be used so that ship can reliably and securely transmit power (Redundant Generator System, Local Control Panel

• Provided engineering support to various projects within the Engineering Department from conceptual to detail design for the development of the Navy Aircraft Carrier Electrical-Propulsion System

• I support the design of the Un-interruptible Power System for critical circuit of the Propulsion Plant Monitoring and Control (PPMC) System. Support the design of environmentally safe Battery back-up

• I was responsible for developing the system description write-up for the Revise Osmosis (RO) system description write-up for the Desalination System. Supported the design and system specification for the Gland Seal Gland Exhaust System

• Evaluation of commercially available Uninterrupted Power Supply (UPS) topologies for shipboard applications. Conducted research at different phases of the instrumentation and control (I&C), smart power, telecommunication (Optical Fibber), and smart sensors.

Rail Vehicle Electrical/Electronic Technician

SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AUTHORITY - Southeastern, PA - 1989 to 1999

- (SEPTA) (1989 to 1999)
1234 Market Street Philadelphia, Pennsylvania, 19107
Rail Vehicle Electrical/Electronic Technician - 1st Class - (Rail Equipment Maintenance)
Was Responsible for the overhaul and diagnostic testing of the SEPTA Light Rail Vehicles (LRV) System.
• Supported preventative maintenance activities and state inspections
• Rebuilt and installed vehicle electrical and pneumatic control equipment

EDUCATION

Project Engineering Management

George Washington University - Washington, DC
2005

Bachelor of Science in Electrical Engineering

Temple University - Philadelphia, PA
1999

Associate in Electronic Engineering Technology

RETS Electronic School of Technology - Broomall, PA
1988