

ENGINEER: ELECTRICAL

EDGARDO LÓPEZ, P.E., CFEI
Engineering Design & Testing Corp.
Post Office Box 8027
Columbia, South Carolina 29202
Telephone: (803) 791-8800
elopez@edtengineers.com

EDUCATION:

2003 Bachelors of Science in Electrical Engineering
University of Puerto Rico at Mayagüez

EXPERIENCE:

April 2015 **Engineering Design & Testing Corp.**
to Present **Columbia, South Carolina** – (October 2017 to Present)
San Juan, Puerto Rico – (April 2015 to October 2017)

Consulting Engineer. Consulting in the areas of electrical engineering for commercial, industrial and residential systems. Services include electrical failure analysis, damage assessment, repair/replacement analysis, code and standards compliance, troubleshooting of electrical equipment, construction management, power systems operation and maintenance evaluation; power generation and distribution systems evaluation; fire origin and cause and explosion evaluations.

November 2014 **Claro (America Móvil)**
to April 2015 **Guaynabo, Puerto Rico**

Manager of Engineering, Environmental Control, Building Maintenance and Power Systems. Manager of various projects, including development and maintenance of new stores and existing buildings and infrastructures for the largest telecommunication company of Puerto Rico. Coordination and supervision of facilities maintenance of properties on the island including offices, stores, antennas, and all telecommunication equipment. Power systems maintenance at all locations including offices and all equipment installed. Responsible for operation of emergency power systems during power failures. Responsible for compliance with environmental regulations regarding all power equipment installed at Claro's facilities.

October 2010
to October 2014

Eng. Miguel A. Bonilla, PSC
San Juan, Puerto Rico

Project Engineer. Project management of various wastewater treatment construction projects. Project compliance with laws and regulations, including safety and environmental regulations. Preparation of documentation for permits and weekly/monthly reports.

Inspection of mechanical and electrical installations, including motors, pumps, generators and transformers in the low, medium and high voltage ranges. Operation, troubleshooting and testing of control systems for Motor Control Centers in water treatment plant facilities.

June 2009
to December 2009

Eng. Luis M. Carrillo, PSC
San Juan, Puerto Rico

Project Director. Construction management of school improvement program comprising of schools in municipalities of San Juan, Carolina and Trujillo Alto, Puerto Rico. Supervision of engineers assigned to construction projects. Meeting coordination with government and contractor's personnel.

July 2008
to June 2009

Puerto Rico Electric Power Authority - PREPA
Toa Baja, Puerto Rico

Supervisor Engineer. Supervision of design and construction of new electrical power infrastructure. Personnel Supervision in construction and operation of power systems.

December 2003
to July 2008

Eng. Luis M. Carrillo, PSC
San Juan, Puerto Rico

Resident Engineer. Construction management of a \$34.5 MM Public Housing Project for Puerto Rico Public Housing Administration PRPHA. Document preparation for change orders, payment certifications. Personnel supervision and meeting coordination with various government agencies and contractor's personnel.

Summer 2001

Puerto Rico Electrical Power Authority - PREPA
San Juan, Puerto Rico

Professional in Training. Conservation and maintenance of power substations. Maintenance work in the electrical system. Detection and prevention of faults in the power generation and distribution system of Puerto Rico.

CONTINUING EDUCATION:*Ethics for the Practicing Engineer – An Introduction*

Ray W. James, P.E., Ph.D., F ASCE, December 2018, Webinar

Basics of Recloser Testing

Able Gonzalez, Megger, November 2018, Webinar

Voltage Dielectric Frequency Response for Bushing and Instrument Transformer Diagnosis

Diego Robalina, Megger, October 2018, Webinar

Battery Impedance Test: Analysis and Trending

Volney Naranjo, Megger, September 2018, Webinar

Fundamentals of Circuit Breaker Maintenance – NETA Standards

Mike Carter, AVO Training Institute, August 2018, Webinar

The Basics of Infrared Thermography

Mike Carter, AVO Training Institute, July 2018, Webinar

Substations and Transformers: Maintenance and Testing

Albert M. Rose, P.E., EDT Corp., February 2018, Orlando, Florida

Transformer Damages: Unbalanced Conditions and Ferroresonance

Gary W. Mullis, M.Eng., P.E., EDT Corp., February 2018, Orlando, Florida

Methods of Equipment Protection

Matthew D. Rem, P.E., CFEI, EDT Corp., February 2018, Orlando, Florida

Understanding Programmable Logic Controller Language for Forensic Analysis – or Who in the world is George Boole and why should I care?

Anthony Catalfomo, M.S.E.E, P.E., EDT Corp., February 2018, Orlando, Florida

Transformer Maintenance and Testing

AVO Training Institute, May 2017, Dallas, Texas

Engineering Analysis of Failure: Determination of Cause in a Legal Environment

Mark Russell and Russell E. Yates, Yates Law Firm, LLC, February 2017, Albuquerque, New Mexico

Case Studies in Engineering Ethics

Dr. Charles Fleddermann, February 2017, Albuquerque, New Mexico

Backup Power Sources: Varieties and Applications

Stephen Collings, P.E., February 2017, Albuquerque, New Mexico

HVAC Systems and Managing Power in Commercial Buildings

John Imperatore, P.E., Steve Donohue, P.E., and Tony Catalfomo, P.E., February 2017, Albuquerque, New Mexico

Collection and Preservation of Evidence

John Imperatore III, M.S.E., P.E., Scott S. Cramer, P.E., Carol LaFosse, February 2016, Columbia, South Carolina

Large Loss Forum - Engineering Economics: Actual Cash Value (ACV) Definitions and Calculations

Thomas P. Jur, P.E., Kenneth S. Marshall, P.E., February 2016, Columbia, South Carolina

Investigation of Gas and Electric Appliance Fires

Fire Findings, November 2015 Benton Harbor, Michigan

Advanced Fire and Explosions Training Program,

National Association of Fire Investigators, July 2015, Sarasota, Florida

Entrance to Permit Required Confined Space

eTraining, Inc., May 2015

Integration of Renewable Energy to PREPA's Power System

College of Engineers and Land Surveyors of Puerto Rico, February 2014, San Juan, Puerto Rico

Contribution of the Engineer to Food Safety

College of Engineers and Land Surveyors of Puerto Rico, September 2013, San Juan, Puerto Rico

Puerto Rico in a Transition World

College of Engineers and Land Surveyors of Puerto Rico, August 2013, San Juan, Puerto Rico

OSHA 30 Hour Lecture Training for the Construction Industry Standard

CPM Caribbean, June 2012, Guaynabo, Puerto Rico

Forum on Energy Policy and Stability of Puerto Rico

College of Engineers and Land Surveyors of Puerto Rico, March 2009, San Juan, Puerto Rico

Construction of Underground Power Systems

Puerto Rico Electric Power Authority, July 2008, San Juan, Puerto Rico

Construction of Aerial Power Systems

Puerto Rico Electric Power Authority, July 2008, San Juan, Puerto Rico

Construction of Power Substations

Puerto Rico Electric Power Authority, July 2008, San Juan, Puerto Rico

Inspection of Elevators and Escalators

College of Engineers and Land Surveyors of Puerto Rico, June 2006, San Juan, Puerto Rico

PROFESSIONAL ORGANIZATIONS:

College of Engineers and Land Surveyors of Puerto Rico (CIAPR)

Institute of Electrical and Electronic Engineers (IEEE)

National Fire Protection Association (NFPA)

International Association of Arson Investigating (IAAI)

National Association of Fire Investigators (NAFI)

South Carolina Insurance Fraud Investigators (SCIFI)

REGISTRATIONS:

Registered Professional Engineer in South Carolina (#35142)

Registered Professional Engineer in Puerto Rico (#20438)

Registered Professional Engineer in Florida (#79804)

Registered Professional Engineer in Georgia (#PE043050)

Registered Professional Engineer in North Carolina (#046525)

National Council of Examiners for Engineering and Surveying (NCEES) (#63433)

NCEES International Registry

CERTIFICATIONS:

Certified Fire and Explosion Investigator, National Association of Fire Investigators, (CFEI)