

EDUCATION

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

EXPERIENCE

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

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- 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 Million 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

REGISTRATIONS and CERTIFICATIONS

- Registered Professional Engineer in Florida (#79804)
Registered Professional Engineer in Georgia (#PE043050)
Registered Professional Engineer in North Carolina (#046525)
Registered Professional Engineer in Puerto Rico (#20438)
Registered Professional Engineer in South Carolina (#35142)
Certified Fire and Explosion Investigator, National Association of Fire Investigators, (CFEI)
National Council of Examiners for Engineering and Surveying (NCEES) (#63433)
NCEES International Registry

PROFESSIONAL ORGANIZATIONS

- College of Engineers and Land Surveyors of Puerto Rico (CIAPR)
Institute of Electrical and Electronic Engineers (IEEE)
International Association of Arson Investigating (IAAI)
National Association of Fire Investigators (NAFI)
National Fire Protection Association (NFPA)
South Carolina Insurance Fraud Investigators (SCIFI)

CONTINUING EDUCATION

- 2019 *Battery Maintenance Load Testing: Standards Requirements and Recommended Practices,*
Volney Naranjo, Megger, Webinar

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- PD Testing in the Life Management of a Cable*, Robert Probst, Megger, Webinar
- A Technicians Approach to Symmetrical Components and Their Use*, AVO Training Institute, Webinar
- Directional Overcurrent Relaying: Now and Then*, Mohit Sharma, Megger, March 2019, Webinar
- Interdisciplinary Investigation*, Thomas D. Traubert, P.E. and Anthony Catalfomo, M.S.E.E., P.E. and Glenn Stewart, M.E., P.E., EDT Corp., February 2019, Charlotte, North Carolina
- Human Machine Interfaces*, Taylor A. Russell, P.E., EDT Corp., February 2019, Charlotte, North Carolina
- Lightning in Three Acts*, Gary W. Mullis, M. Eng, P.E., EDT Corp., February 2019, Charlotte, North Carolina
- Basics of Insulation Resistance Testing* – (Instructor), Edgardo López, P.E., EDT Corp., Charlotte, North Carolina
- Electrical Connection Failures*, Scott S. Cramer and Jimmy H. Beard, M.E., P.E., EDT Corp., Charlotte, North Carolina
- Building Your Practice – Means & Methods for Success, Charles E. Whitley, P.E., and Chuck W. Jackson, Jr., MBA, EDT Corp., Charlotte, North Carolina
- 2018 *Basics of Recloser Testing* – Able Gonzalez, Megger, Webinar
- Battery Impedance Test: Analysis and Trending* – Volney Naranjo, Megger, Webinar
- Ethics for the Practicing Engineer – An Introduction*, Ray W. James, P.E., Ph.D., F ASCE, Webinar
- Fundamentals of Circuit Breaker Maintenance – NETA Standards* – Mike Carter, AVO Training Institute, Webinar
- Methods of Equipment Protection* – Matthew D. Rem, P.E., CFEI, EDT, Orlando, Florida
- Substations and Transformers: Maintenance and Testing* – Albert M. Rose, P.E., EDT, Orlando, Florida
- The Basics of Infrared Thermography* – Mike Carter, AVO Training Institute, Webinar
- Transformer Damages: Unbalanced Conditions and Ferroresonance* – Gary W. Mullis, M.Eng., P.E., EDT, 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, Orlando, Florida
- Voltage Dielectric Frequency Response for Bushing and Instrument Transformer Diagnosis* – Diego Robalina, Megger, Webinar
- 2017 *Backup Power Sources: Varieties and Applications* – Stephen Collings, P.E., Albuquerque, New Mexico
- Case Studies in Engineering Ethics* – Dr. Charles Fleddermann, Albuquerque, New Mexico
- Engineering Analysis of Failure: Determination of Cause in a Legal Environment* – Mark Russell and Russell E. Yates, Yates Law Firm, LLC, Albuquerque, New Mexico
- HVAC Systems and Managing Power in Commercial Buildings* – John Imperatore, P.E., Steve Donohue, P.E., and Tony Catalfomo, P.E., Albuquerque, New Mexico
- Transformer Maintenance and Testing* – AVO Training Institute, Dallas, Texas
- 2016 *Collection and Preservation of Evidence* – John Imperatore III, M.S.E., P.E., Scott S. Cramer, P.E., Carol LaFosse, 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
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- 2015 *Advanced Fire and Explosions Training Program* – National Association of Fire Investigators, Sarasota, Florida
 Entrance to Permit Required Confined Space – eTraining, Inc.
 Investigation of Gas and Electric Appliance Fires – Fire Findings, Benton Harbor, Michigan
- 2014 *Integration of Renewable Energy to PREPA’s Power System* – College of Engineers and Land Surveyors of Puerto Rico, February 2014, San Juan, Puerto Rico
- 2013 *Contribution of the Engineer to Food Safety* – College of Engineers and Land Surveyors of Puerto Rico, San Juan, Puerto Rico
 Puerto Rico in a Transition World – College of Engineers and Land Surveyors of Puerto Rico, San Juan, Puerto Rico
- 2012 *OSHA 30 Hour Lecture Training for the Construction Industry Standard* – CPM Caribbean, Guaynabo, Puerto Rico
- 2009 *Forum on Energy Policy and Stability of Puerto Rico* – College of Engineers and Land Surveyors of Puerto Rico, San Juan, Puerto Rico
- 2008 *Construction of Aerial Power Systems* – Puerto Rico Electric Power Authority, San Juan, Puerto Rico
 Construction of Power Substations – Puerto Rico Electric Power Authority, San Juan, Puerto Rico
 Construction of Underground Power Systems – Puerto Rico Electric Power Authority, San Juan, Puerto Rico
- 2006 *Inspection of Elevators and Escalators* – College of Engineers and Land Surveyors of Puerto Rico, San Juan, Puerto Rico