

**RALPH J. GUERRA, PE, CFEI**

## **SUMMARY**

Professional Engineer with over 25-years of engineering experience, specializing in Forensic Engineering Investigations with emphasis in Electrical Failure Analysis involving property, injury, and liability claims. Over 1500 incidents investigated. Testifying experience include numerous depositions and trials.

**EDUCATION** - Bachelor of Science in Electrical Engineering (B.S.E.E.),  
University of Miami, Class of 1987.

## **REGISTRATIONS**

Licensed Engineer, State of Florida (No. 56080).  
Licensed Standard Inspector, State of Florida (No. BN 0002197).  
Certified Fire & Explosion Investigator (NAFI - No. 13454-6690).  
Radiation Safety Officer (RSO) for X-Ray machine (JR4161100).

## **PROFESSIONAL AFFILIATIONS**

National Fire Protection Association (NFPA)  
National Association of Fire Investigators (NAFI)  
Florida Advisory Committee on Arson and Prevention (FACAP)  
International Association of Electrical Inspectors (IAEI)

## **CAREER HISTORY**

**Forcon International** - Conducts forensic engineering investigations and provides expert witness services regarding electrical failures, fires and electrical contact injuries.

**RGA Consulting Engineers, Inc.** - Sunrise, Florida - Forensic Engineer / Company President  
Forensic Evaluations of incidents to determine causation in liability, property, and personal injury claims, including but not limited to the following:

- Building, Vehicle, and Yacht Fires.
- Product Failures and Malfunctions.
- Building Code Compliance and Contractor Accountability Issues.
- Fire Damage Evaluations.
- Plumbing & Mechanical Failures.
- Floor Tile Damage Evaluations.
- Lightning Damage Incidents.
- Electric Shock/Flash Injury Evaluations.
- Scope of Damage Assessments.
- Proficient and equipped with a host of test and measurement equipment used to substantiate analysis with supporting data.
- Illumination Surveys & Code Compliance (i.e. Parking lot & Egress lighting).

**SEA Consulting, Inc.** - Fort Lauderdale, Florida - Project Engineer  
Investigated electrical incidents to determine causation in liability, property, and personal injury claims.

**EDF Company** - West Palm Beach, Florida - Senior Facilities Design Engineer / Project Leader  
Providing engineering consulting services to Pratt & Whitney - Plant Engineering - and Environmental Health and Safety Departments. Engineering Design of complete building systems including power distribution, lighting, office communication systems, security systems, building automation and energy management systems, HVAC controls, etc. Responsibilities included: gathering customer requirements, conducting design review meetings, design using AutoCad 14 software, directing drafting individuals, providing field support during construction phase, inspection of construction to meet local, state, and national codes, and project management to ensure that budget, schedule, and good commercial quality were satisfied.

**City of Boca Raton Building Division** - Boca Raton, Florida - Electrical Inspector / Plans Reviewer  
Providing On-Call Inspection & Plans Review services to City with enforcement of local codes. Exposure to a variety of building designs & installations.

**Todd Carey & Associates** - Consulting Engineers - Fort Lauderdale, Florida - Senior Electrical Designer  
Provided electrical engineering design of commercial buildings such as fast-food restaurants, retail stores, public schools, office buildings, outpatient care facilities, etc. in compliance with local, state, and national codes. Responsibilities included: coordinating with architects or business owners to define design criteria, specifying products using vendor catalogs, and generating the necessary drawings by manual/computer drafting.

**United Technologies - Pratt & Whitney** - West Palm Beach, Florida - Senior Facilities Design Engineer  
Worked for Test Facilities Engineering department providing electrical design for a variety of state-of-the-art facilities for testing military and commercial aircraft engines. Responsibilities included: electrical estimating, writing equipment specifications, generating drawings, obtaining material and labor procurement, review/analyze contractor bids, and completion for proper operation and delivery to customer.

**INTERNATIONAL EXPERIENCE** - Brazil, Puerto Rico, and U.S. Virgin Islands