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Frank D. Silva | Senior Forensic Electrical Engineer, PE, MSEE, CFEI

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Professional Summary:

Mr. Silva has experience conducting forensic investigations and exams of products and premises with failed components which may hold liability or subrogation options. He has over 20 years of experience in federal law enforcement conducting civil and criminal investigations. His experience includes international assignments. He has testified in administrative, court, and Grand Jury proceedings. Mr. Silva also worked seven years designing, maintaining, and operating power distribution and transmission systems for an electric utility.

Areas of Expertise:

- Consumer Appliances
- Electric Utility Disaster Restoration
- Electric Utility Low and High Voltage AC Networks
- Laboratory Examination
- Lightning and Power Surge Damage
- Power Quality
- Lighting and Illumination

Licenses and Certifications:

Professional Engineer, Florida Board of Professional Engineers, FL, #69592

Professional Engineer, Puerto Rico Board of Board of Examiners of Engineers and Land Surveyors, PR, #10507

Professional Engineer, US Virgin Islands Department of Licensing and Consumer Affairs, USVI, 0-42262-1B

Certified Fire and Explosion Investigator, National Association of Fire Investigators, #22652-12942

Certified Marine Electrical, American Boat & Yacht Council

Certified Energy Manager, Association of Energy Engineers, #14070

Professional Experience:

EFI Global, Senior Forensic Electrical Engineer, 2018 – Present
Unified Investigations & Sciences, Inc., Forensic Electrical Engineer, 2015 – 2018
U.S. Postal Inspection Service, Postal Inspector/ Program Manager, 1995 – 2015
Puerto Rico Electric Power Authority, Engineer Supervisor, 1989 – 1995
Puerto Rico Electric Power Authority, Engineer in Training, 1987 – 1988

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Specialized Education:

40-Hour Fundamentals of Fire Investigation, CFI Trainer.net, 2022
Marine Electrical Certificate, American Boat & Yacht Council, 2021
Transformer Management 2, SD Myers, 2020
Electrical Inspections, Professional College of Engineers and Land Surveyors of Puerto Rico (PCELSPR), 2020
Transformer Management 1 Plus, SD Myers, 2019
Refrigeration and Air Conditioning Fundamentals Part 1, Professional College of Engineers and Land Surveyors of Puerto Rico (PCELSPR), 2018
International Advanced Fire Investigation Training Program, National Association of Fire Investigators, 2017
Essentials of NFPA1033, Unified Investigations & Sciences, 2016 – 2017
Marine Electrical Certificate, American Boat & Yacht Council, 2016
Court Appearance Techniques for Forensic Engineers, PCELSPR, 2016
Globally Harmonized System of Classification and Labeling of Chemicals, Unified Investigations & Sciences, 2015
NFPA 1033 and Your Career, International Association of Arson Investigators (IAAI) – CFITrainer.net, 2015
Arc Mapping Basics, IAAI – CFITrainer.net, 2015
The Scientific Method for Fire and Explosion Investigation, IAAI – CFITrainer.net, 2015
NFPA 921 and 1033 2014 Editions: Important Revisions, IAAI – CFITrainer.net, 2015
Investigation of Gas and Electric Appliance Fires, Fire Findings, 2015
Forensic Investigations, Course for Private Investigators and Engineers, Unified Investigations & Sciences, 2015
The Engineer's Role in the Forensic Analysis of Accident, PCELSPR, 2015
Electric Substation: The Power Transformer General Concepts & Maintenance, PCELSPR, 2015
Important Technical Aspects in the Development of a Wind Farm, PCELSPR, 2012
Structural Assessment, Before and After an Earthquake, PCELSPR, 2012
Authorized Professional Certification Program, PCELSPR, 2011
Electrical Classifications for Hazardous Process Areas, PCELSPR, 2011
Chemical Cleaning and Passivation Technology & Building Automation and Energy Solutions, PCELSPR, 2010
Photovoltaic Training for Installation and Certification, PCELSPR, 2009

Education:

Master of Science, Electrical Engineering, Florida International University, Miami, FL, 2015
Master of Science, Engineering Management, Florida International University, Miami, FL, 2012
Bachelor of Science, Electrical Engineering, University of Puerto Rico, Mayaguez, PR, 1989

Affiliations:

International Association of Arson Investigators
National Association of Fire Investigators
American Boat & Yacht Council
Professional College of Engineers and Land Surveyors of Puerto Rico

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