



CHRIS B. FLEMING, P.E., CFEI, LEED B+DC, BEAP

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Atlanta, GA & Washington, DC

EXPERIENCE AND CAPABILITIES

- Electrical System Claim Evaluation
- Electrical, Fire and Explosion Investigations
- Power and Lighting Design
- Evaluation of Water Damaged Equipment
- Assessment of Electrical Systems
- Support of Mechanical Systems
- Generator Load Evaluation
- Interior/Exterior Lighting Analysis
- Design-Bid-Build or Design-Build
- Electrical Equipment Assessment
- Property Condition Assessments
- Lightning Protection Systems
- * Origin & Cause Reports
- * Litigation/Subrogation Support
- * Injury Investigations
- * Backup Generator Systems
- * Damage Assessment Reports
- * Joint Inspections
- * PT&I Program Implementation
- * Code Compliance
- * Electrical Cost Estimating
- * Switchboard/Load evaluations
- * Exit/Emergency Lighting
- * Project Scope Development

EMPLOYMENT RECORD

2011 - Present - 186 Engineering, Atlanta, GA / Washington, DC

Principal/Sr. Forensic Electrical Engineer: Responsible for all business operations; evaluation and engineering associated with electrical power and lighting. Duties include forensic assessment and investigation of damaged electrical equipment; litigation/subrogation support, water-damaged electrical equipment; fire and explosion investigation with electrical factors; origin and cause; Electrical/MEP design/specifications ; code compliance; lightning strikes; project management; design-build projects; construction administration; inspection; and proposals.

2014 - 2017 - EMCOR, Arlington, VA

Director, Engineering Support & Senior Electrical Engineer: Responsible for program/department management consisting of Mechanical, Electrical and Structural Engineering support. Specific technical duties include engineering design document development; condition assessment; engineering studies; investigations; origin and cause; code compliance; damage assessment; project management; design-build projects; and construction related administration and inspection; quality control and engineering proposals. Related duties include management of the Predictive Testing and Inspection (PT&I) program which includes Infrared Thermography, Vibration Analysis, Ultrasonic Electrical Inspection, and Oil Analysis.

January 2013 - July 2013 Parsons NASA/Greenbelt. MD

Sr. Electrical Engineer: Primarily responsible for electrical engineering related design activities at Greenbelt Maryland facilities. Actively performs all duties relevant to the design of new and renovated facility electrical systems, including power, lighting, AutoCAD, quality assurance, design coordination, UPS system design, and general support of team environment.



2010 - 2011 EFI Global, Columbia, MD

Sr. Electrical Engineering Consultant: Primarily responsible for issues associated with electrical power and lighting systems in facilities as well electrical components of various products and appliances. Expertise includes a thorough knowledge of electrical building systems including power distribution, interior and exterior lighting, lightning protection, fire alarm, maintenance and associated elevator and escalator damage assessment, construction, design, project management and codes. Duties include advising clients with regard to electrical systems, electrical equipment, cause and origin investigations, forensic engineering, equipment failure, incident investigation, damage assessment, cost recommendations, legal support, engineering design and the development of various engineering reports

2009 - 2010 Packer Engineering, Columbia, MD

Sr. Electrical Engineering Consultant: Primarily responsible for issues associated with electrical power systems, lighting systems and vertical transportation in facilities as well electrical components of various products and appliances. Expertise includes a thorough knowledge of electrical building systems including power distribution, interior and exterior lighting, lightning protection, fire alarm, maintenance and associated codes including the National Electrical Code (NFPA 70), International Building Code (IBC), Life Safety Code (NFPA 101), National Fire Alarm Code (NFPA 72), Safety Code for Elevators and Escalators (ASME A17), Lightning Protection Code (NFPA 780), NEMA standards and others. Duties include advising clients with regard to electrical systems, vertical transportation systems, electrical equipment, origin and cause investigations, forensic engineering, equipment failure, incident investigation, damage assessment, cost recommendations, engineering design and the development of various engineering reports.

2004 - 2009 M-R/Innoveers, Hyattsville, MD

Electrical Dept. Head/Project Manager/Senior Electrical Engineer: Responsible for management and production of electrical engineering design documents provided by the company and management of the electrical design team. Actively performs all duties relevant to the design of new and renovated facilities electrical systems, assessments of electrical and life safety systems including fire alarm and ADA requirements, value engineering, interior and exterior lighting design, vertical transportation systems, lighting impact evaluation, support of mechanical system updates, generator system design, UPS system design, preparing cost estimates, preparing a variety of related reports, proposals and provide support in team environment.

2000 - 2004 Dewberry Design Group, Arlington, VA

Electrical Engineer & Design Review Coordinator: Performed assessments of building electrical, fire alarm and life safety systems, A/E design review, Quality Assurance of the Design Review process, Energy Conservation development, code conformance assessments, recommends corrective action, long range planning, building systems, preparing cost estimates, preparing a variety of related reports, and provide support in team environment.



1995 – 2000 Greenway Enterprises/WASHMAC/DYNCORP

Construction Manager/Project Manager/Project Electrical Engineer: Performed and responsible for reviewing and developing engineering design documents, surveying overseas sites, specifying/ordering the required materials and tools, managing construction teams and preparing all associated construction and economic impact statements. Primarily managed projects related to building electrical power, power quality, lighting, architectural renovation, energy conservation measures, generators, capacitor banks, lightning protection, fire alarm and UPS systems. Maintains liaisons with individuals and units within and outside the organization, and represents the organization in conferences to resolve important questions. Typical duties involve managing a number of projects simultaneously as well as evaluating plans and criteria for a variety of projects and activities to be carried out by others.

1994 - 1995 Engineering Applications Consultants

Electrical Engineer: Actively performs all duties involved in the electrical design of following: Low voltage power distribution systems, Industrial, office and outdoor lighting, vertical transportation and fire alarm systems. Duties also include production of design drawings, extensive field survey, specifications, cost estimating, and client relations.

1990 - 1994 David Volkert & Associates

Electrical Engineer: Performed all duties involved in the design of industrial, office and outdoor lighting, power distribution systems, asbestos/lead abatement design and monitoring, fire alarm and lightning protection systems. Co-authored studies of existing communication duct systems and power distribution systems. Authored exterior lighting study and associated environmental impact at a Fairfax, Virginia educational facility. Duties also included design, production of design drawings, field survey, specifications, cost estimating and client relations.

CONTINUING EDUCATION

Fire Findings, Investigation of Gas and Electric Appliances, 2018
Building Energy Assessment Professional (BEAP) Certified, 2017
Design DC, Sponsored by AIA, 2017
Engineering Ethics & Law, 2016
LEED B+DC 2016
OSHA 10-hour Occupational Health & Safety 2013, 2017
International Advanced Fire, Arson & Explosion Investigation Training Program, 2013
Certified Fire and Explosion Investigation Seminar, National Assoc. of Fire Investigators, 2012
National Electrical Code Seminar, National Fire Protection Association, 2011
National Electrical Code Seminar, National Fire Protection Association, 2005
National Electrical Code Seminar, National Fire Protection Association, 2002
Hazardous Locations Seminar, National Fire Protection Association, 2001
Electrical Safety in Workplace Seminar, National Fire Protection Association, 2001
UPS Maintenance Training, Exide Electronics, 1999
High Voltage Electrical Safety Training, National Technology Transfer, Inc., 1999



PROFESSIONAL ORGANIZATIONS

Member - National Association of Fire Investigators
Member - Illuminating Engineering Society of North America

REGISTRATION/CERTIFICATIONS

SBA HUBZone Certification number: 48989, Original Certification 1/31/2013

Professional Engineer (PE) - Georgia #042372
Professional Engineer (PE) - South Carolina #34456
Professional Engineer (PE) - Washington, DC, License #906048
Professional Engineer (PE) - Maryland, License #40968
Professional Engineer (PE) - Virginia, License #028741
Professional Engineer (PE) - Florida, License #73555
Professional Engineer (PE) - New York, License #092232
Professional Engineer (PE) - Pennsylvania, License #80956
Professional Engineer (PE) - Texas, License #80956
Certified Fire and Explosion Investigator (CFEI) - #6983-9450
LEED AP (B+DC), Green Building Certification Institute (GBCI), ID #10399204

EDUCATION AND QUALIFICATIONS

US Government DOD Top Secret Clearance, BSEE Hampton Univ. 1989, Professional Engineer (PE), LEED B+DC, over 28 Years of Design/Autocad and Project Management Experience, Confined Entry & Asbestos Training, Advanced Site Surveying/Planning Abilities, Excellent inter-personal skills, Office Softwares, National Electrical Code, IBC, Life Safety Code, Lighting Softwares.