

EDUCATION

- 1996 **Masters of Science, Electrical Engineering**
Mississippi State University, Mississippi State, Mississippi
- 1990 **Bachelor of Science, Electrical Engineering**
Mississippi State University, Mississippi State, Mississippi
- 1988 **Associate of Arts, Pre-Engineering**
Southwest Mississippi Community College, Summit, Mississippi

EXPERIENCE

- November 2018
to Present **Engineering Design & Testing Corp.**
Birmingham, Alabama
Consulting Electrical Engineer and Fire Investigator
Consulting in the area of electrical engineering for residential, commercial, and industrial systems, including origin and cause analysis of fires, electrical system failures, electrical code compliance review, technical investigation of incidents involving industrial electrical power distribution systems and industrial control systems, scope of damage, and analysis of costs to repair or replace electrical equipment and systems.
- September 2006
to November 2018 **AT&T**
Birmingham, Alabama
Area Manager — Internet and Entertainment Services
Manager of a team of analysts focused on providing an exceptional customer experience for DirecTV, IPTV, internet, and core services. Work included supervision and mentorship of subordinates, data analysis, process design, resource and budget management, and customer service analytics for internal and external clients.
- September 2001
to September 2006 **BellSouth Corporation**
Jackson, Mississippi
Area Manager — Work Management Center
Led a team of management and non-management employees focused on customer repair and installation fulfillment, technician resource management, and customer commitments for all product types. Additional responsibilities included customer trouble testing and resolution, troubleshooting and repair of pair-gain test systems, and monitoring and repair of pressurized cable systems.
- June 1999
to September 2001 **BellSouth Corporation**
Tupelo, Mississippi
Area Manager — Outside Plant Engineering & Construction.
Led a large team of management and non-management employees engaged in the design and construction of outside plant facilities, including scheduling, budgeting, performance management, managing the vendor/partner engineering company, and

negotiating placement contracts. Responsibilities included planning and design reviews of construction projects, material ordering and management, construction of aerial, buried, and underground facilities, construction of fiber optic and digital loop carrier systems, and maintenance and repair of fiber optic and pressurized cable systems.

January 1998
to June 1999

BellSouth Corporation
Gulfport, Mississippi

Project Manager — Outside Plant Engineering & Construction.

Managed the construction and engineering of all major programmed work for the Mississippi Gulf Coast area. Coordinated site acquisition, coordinated with DOT and other utilities, scheduled construction and engineering forces and prioritized work activities, ordered materials, coordinated work activities with customers, tracked cost estimates, performed quality reviews of engineering work prints.

June 1992
to January 1998

BellSouth Corporation
Jackson, Mississippi

Specialist — Transmission Engineering and Support

Provided engineering support and tier-II technical support for all aspects of the transport network. Responsibilities included fiber and copper transport system engineering; turnup, acceptance testing, and troubleshooting of fiber optic multiplexers, digital loop electronics, and network synchronization elements; vendor equipment testing and certification; and technician training program development and delivery.

Summers, 1982
to 1988

Hoyt Beard, General Contractor
McComb, Mississippi

Construction Laborer

Assisted in the construction of wood-framed buildings, including pouring concrete, framing, sheathing, roofing, painting, and finish carpentry. Also assisted in the repairs and remodeling of residential and commercial structures.

REGISTRATIONS and CERTIFICATIONS

Registered Professional Engineer in Alabama (#28590)

Registered Professional Engineer in Arkansas (#18594)

Registered Professional Engineer in Florida (#86192)

Registered Professional Engineer in Georgia (#PE043913)

Registered Professional Engineer in Louisiana (#PE.0043165)

Registered Professional Engineer in Mississippi (#PE-14031)

Registered Professional Engineer in Tennessee (#122308)

Registered Professional Engineer in Texas (#133804)

NAFI Certified Fire and Explosion Investigator (CFEI#23837-13738)

PROFESSIONAL ORGANIZATIONS

Institute of Electrical and Electronics Engineers (IEEE, Member 2018 - present)

International Association of Arson Investigators (IAAI, Member 2018 - present)

Alabama Association of Arson Investigators (AAAI, Board of Directors Jan 2022 - present)

National Association of Fire Investigators (NAFI, Member 2019 - present)

National Fire Protection Association (NFPA, Member 2018 - present)

Underwriters Laboratories Standards Technical Panel Member (UL STM-325, 2021 – present)

CONTINUING EDUCATION

2022 *Charting Your Career Path in Fire Investigations*, IAAI, CFITrainer.net module (3 hours tested)

Critical Evaluation and testing of Commonly Reported Accidental Causes, IAAI, CFITrainer.net module (3 hours tested)

Fundamentals of Residential Building Construction, IAAI, CFITrainer.net module (3 hours tested)

Fire Investigator Scene Safety, IAAI, CFITrainer.net module (3 hours tested)

Documenting the Event, IAAI, CFITrainer.net module (4 hours tested)

Effective Investigation and Testimony, IAAI, CFITrainer.net module (3 hours tested)

Alternative Fuel Vehicles, IAAI, CFITrainer.net module (3 hours tested)

Fire Chemistry, IAAI, CFITrainer.net module (3 hours tested)

Fire Flow Analysis, IAAI, CFITrainer.net module (3 hours tested)

Digital Photography and Fire Investigation, IAAI, CFITrainer.net module (4 hours tested)

Emerging Technologies in Fire Investigation, IAAI, CFITrainer.net module (3 hours tested)

Fire Protection Systems, IAAI, CFITrainer.net module (3 hours tested)

Explosion Dynamics, IAAI, CFITrainer.net module (4 hours tested)

Introduction to Fire Dynamics and Modeling, IAAI, CFITrainer.net module (4 hours tested)

Introduction to Evidence, IAAI, CFITrainer.net module (4 hours tested)

Process of Elimination, IAAI, CFITrainer.net module (3 hours tested)

NFPA 1033 and Your Career, IAAI, CFITrainer.net module (2 hours tested)

The Scientific Method for Fire and Explosion Investigation, IAAI, CFITrainer.net module (3 hours tested)

Underground Cable Design Considerations and Failure Analysis, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)

Fire Investigations Follow Up, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)

Circuit Breakers, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)

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- Losses at Renewable Energy Stations*, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)
- Hydraulic Systems and Components*, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)
- 2021 *Battery Technologies for Station Power*, IEEE, Cullman, Alabama (1 hour)
- Fire Alarm Systems*, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
- Power Factor and Power Factor Corrections*, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
- Photovoltaics and Energy Storage*, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
- Finite Element Analysis*, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
- Ethics for Professional Engineers*, EZ-PDH, Birmingham, Alabama (1 hour)
- Damage Assessments in Telecommunications Networks*, Engineering, Design, and Testing Corp, Birmingham, Alabama (3.5 hours)
- Fire Investigations and NFPA921: An Education for Engineers*, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
- AAAI Fall Training Workshop*, Alabama Association of Arson Investigators, Cullman, Alabama (8 hours tested)
- 2020 *Understanding Smart Home Networks*, Engineering, Design, and Testing Corp, Savannah, Georgia (4 hours)
- Understanding the Impact of Power Quality Problems*, Engineering, Design, and Testing Corp, Savannah, Georgia (2 hours)
- The User Experience of Smart Lighting Control*, Lutron, Huntsville, Alabama (1 hour)
- The C Change in Outdoor Lighting*, Signify, Huntsville, Alabama (1 hour)
- Color Metrics and TM-30*, Hubbell Lighting, Huntsville, Alabama (1 hour)
- Florida Law and Rules*, PDHNow, Birmingham, Alabama (1 hour)
- Engineering Ethics: Kansas City Hyatt Walkway Collapse*, PDHNow, Birmingham, Alabama (1 hour)
- Grounding and Bonding of Electrical Systems*, PDHNow, Birmingham, Alabama (4 hours)
- Florida Building Code, Fire Protection Systems*, PDHNow, Birmingham, Alabama (4 hours)
- Emergency and Standby Power Systems*, PDHNow, Birmingham, Alabama (4 hours)
- 2019 *Ethics for the Practicing Engineer*, Red Vector, Birmingham, Alabama (1 hour)
- Building Your Practice*, ED&T, Charlotte, North Carolina (4 hours)
- Interdisciplinary Investigations*, ED&T, Charlotte, North Carolina (2 hours)
- Investigation of Gas and Electric Appliance Fires*, Fire Findings, Benton Harbor, Michigan (30 hours tested)
- International Fire, Arson & Explosion Investigation Training Program*, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Lightning in Three Acts*, Engineering, Design, and Testing Corp., Charlotte, North Carolina (2 hours)
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- Basics of Insulation Resistance Testing*, Engineering, Design, and Testing Corp., Charlotte, North Carolina (2 hours)
- Human-Machine Interfaces*, Engineering, Design, and Testing Corp., Charlotte, North Carolina (2 hours)
- Electrical Connection Failures*, Engineering, Design, and Testing Corp., Charlotte, North Carolina (3 hours)
- 2018 *Big Data Overview*, AT&T, Birmingham, Alabama
- Internet of Things Overview*, AT&T, Birmingham, Alabama
- OSHA Permit-Required Confined Space Entry*, eTraining Inc., Birmingham, Alabama
- Professionalism and Ethics*, Louisiana Professional Engineering and Land Surveying Board, Birmingham, Alabama
- 2017-2018 *Cyber Security*, Champlain College, Birmingham, Alabama
- 2017 *Access Control Lists*, AT&T, Birmingham, Alabama
- Eaton/Bussmann Consulting Engineer Training*, Eaton Corporation, St. Louis, Missouri
- EIGRP Implementation*, AT&T, Birmingham, Alabama
- Network Environment Management*, AT&T, Birmingham, Alabama
- Undersea Cables Overview*, AT&T, Birmingham, Alabama
- WAN Connections*, AT&T, Birmingham, Alabama
- Wireless LANs*, AT&T, Birmingham, Alabama

2022 NFPA 1033 Job Performance Requirements

Fire Science:

- Fire Chemistry
 - 2022 - Fire Chemistry, IAAI, CFITrainer.net module (3 hours tested)
 - 2019 - Investigation of Gas and Electric Appliance Fires, Fire Findings, Benton Harbor, Michigan (30 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Thermodynamics
 - 2022 - Fire Flow Analysis, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Introduction to Fire Dynamics and Modeling, IAAI, CFITrainer.net module (4 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Fire Dynamics
 - 2022 - Fire Flow Analysis, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Introduction to Fire Dynamics and Modeling, IAAI, CFITrainer.net module (4 hours tested)

- 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Explosion Dynamics
 - 2022 - Explosion Dynamics, IAAI, CFITrainer.net module (4 hours tested)
 - 2019 - Investigation of Gas and Electric Appliance Fires, Fire Findings, Benton Harbor, Michigan (30 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)

Fire Investigation:

- Fire Analysis
 - 2022 - Fire Flow Analysis, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - The Scientific Method for Fire and Explosion Investigation, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Critical Evaluation and testing of Commonly Reported Accidental Causes, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Process of Elimination, IAAI, CFITrainer.net module (3 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Fire Investigation Methodology
 - 2022 - Critical Evaluation and testing of Commonly Reported Accidental Causes, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Documenting the Event, IAAI, CFITrainer.net module (4 hours tested)
 - 2022 - Effective Investigation and Testimony, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Digital Photography and Fire Investigation, IAAI, CFITrainer.net module (4 hours tested)
 - 2022 - Process of Elimination, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - NFPA 1033 and Your Career, IAAI, CFITrainer.net module (2 hours tested)
 - 2022 - The Scientific Method for Fire and Explosion Investigation, IAAI, CFITrainer.net module (3 hours tested)
 - 2021 - AAAI Fall Training Workshop, Alabama Association of Arson Investigators, Cullman, Alabama (8 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
 - 2019 - Interdisciplinary Investigations, ED&T, Charlotte, North Carolina (2 hours)
- Fire Investigation Technology
 - 2022 - Digital Photography and Fire Investigation, IAAI, CFITrainer.net module (4 hours tested)
 - 2022 - Emerging Technologies in Fire Investigation, IAAI, CFITrainer.net module (3 hours tested)

- 2022 - Introduction to Fire Dynamics and Modeling, IAAI, CFITrainer.net module (4 hours tested)
- 2021 - AAAI Fall Training Workshop, Alabama Association of Arson Investigators, Cullman, Alabama (8 hours tested)
- 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Evidence Documentation, Collection, and Preservation
 - 2022 - Documenting the Event, IAAI, CFITrainer.net module (4 hours tested)
 - 2022 - Introduction to Evidence, IAAI, CFITrainer.net module (4 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Failure Analysis and Analytical Tools
 - 2022 - Underground Cable Design Considerations and Failure Analysis, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)
 - 2021 - Finite Element Analysis, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
 - 2019 - Electrical Connection Failures, Engineering, Design, and Testing Corp., Charlotte, North Carolina (3 hours)
 - 2019 - Investigation of Gas and Electric Appliance Fires, Fire Findings, Benton Harbor, Michigan (30 hours tested)

Fire Scene Safety:

- Hazard recognition, Evaluation, and Basic Mitigation Procedures
 - 2022 - Fire Investigator Scene Safety, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Alternative Fuel Vehicles, IAAI, CFITrainer.net module (3 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Hazardous Materials
 - 2022 - Fire Investigator Scene Safety, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Alternative Fuel Vehicles, IAAI, CFITrainer.net module (3 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Safety Regulations
 - 2022 - Fire Investigator Scene Safety, IAAI, CFITrainer.net module (3 hours tested)
 - 2022 - Alternative Fuel Vehicles, IAAI, CFITrainer.net module (3 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
 - 2018 - OSHA Permit-Required Confined Space Entry, eTraining Inc., Birmingham, Alabama

Building Systems:

- Types of Construction
 - 2022 - Fundamentals of Residential Building Construction, IAAI, CFITrainer.net module (3 hours tested)
- Fire Protection Systems
 - 2022 - Fire Protection Systems, IAAI, CFITrainer.net module (3 hours tested)
 - 2021 - Fire Alarm Systems, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
 - 2020 - Florida Building Code, Fire Protection Systems, PDHNow, Birmingham, Alabama (4 hours)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
- Electricity and Electrical Systems
 - 2022 - Underground Cable Design Considerations and Failure Analysis, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)
 - 2022 - Circuit Breakers, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)
 - 2022 - Losses at Renewable Energy Stations, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.5 hours)
 - 2021 - Battery Technologies for Station Power, IEEE, Cullman, Alabama (1 hour)
 - 2021 - Power Factor and Power Factor Corrections, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
 - 2021 - Photovoltaics and Energy Storage, Engineering, Design, and Testing Corp, Birmingham, Alabama (1.75 hours)
 - 2021 - Damage Assessments in Telecommunications Networks, Engineering, Design, and Testing Corp, Birmingham, Alabama (3.5 hours)
 - 2021 - AAAI Fall Training Workshop, Alabama Association of Arson Investigators, Cullman, Alabama (8 hours tested)
 - 2020 - Understanding Smart Home Networks, Engineering, Design, and Testing Corp, Savannah, Georgia (4 hours)
 - 2020 - Understanding the Impact of Power Quality Problems, Engineering, Design, and Testing Corp, Savannah, Georgia (2 hours)
 - 2020 - The User Experience of Smart Lighting Control, Lutron, Huntsville, Alabama (1 hour)
 - 2020 - The C Change in Outdoor Lighting, Signify, Huntsville, Alabama (1 hour)
 - 2020 - Emergency and Standby Power Systems, PDHNow, Birmingham, Alabama (4 hours)
 - 2020 - Grounding and Bonding of Electrical Systems, PDHNow, Birmingham, Alabama (4 hours)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
 - 2019 - Electrical Connection Failures, Engineering, Design, and Testing Corp., Charlotte, North Carolina (3 hours)

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- 2019 - Basics of Insulation Resistance Testing, Engineering, Design, and Testing Corp., Charlotte, North Carolina (2 hours)
 - 2019 - Lightning in Three Acts, Engineering, Design, and Testing Corp., Charlotte, North Carolina (2 hours)
 - 2019 - Investigation of Gas and Electric Appliance Fires, Fire Findings, Benton Harbor, Michigan (30 hours tested)
 - 2017 - Eaton/Bussmann Consulting Engineer Training, Eaton Corporation, St. Louis, Missouri
 - Fuel Gas Systems
 - 2022 - Alternative Fuel Vehicles, IAAI, CFITrainer.net module (3 hours tested)
 - 2019 - International Fire, Arson & Explosion Investigation Training Program, National Association of Fire Investigators, Seattle, Washington (24 hours tested)
 - 2019 - Investigation of Gas and Electric Appliance Fires, Fire Findings, Benton Harbor, Michigan (30 hours tested)