SCHAEFER ENGINEERING, Inc.
A Professional Engineering Company

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Professional Resume of
ROBERT J. MARKIEWICZ, JR., P.E.

May 2026

I. General Information

Project Engineer - Electrical
Schaefer Engineering, Inc.
Wentzville, Missouri

II. Professional Summary

A. Education: Bachelor of Science - 1996
Electrical Engineering
University of Missouri-Rolla
Rolla, Missouri

B. Experience

June 2020 to Present
Position: Project Engineer - Electrical
Schaefer Engineering, Inc.
Wentzville, Missouri

Investigate electrical faults and malfunctions, particularly those suspected of causing a fire or equipment damage. Failure analysis of electrical components and systems. Reconstruct accidents to determine the mode of failure. Analyze various types of electrical equipment and appliances on-site and/or in the laboratory to determine the cause or result of an incident. Investigate the cause of electrical shock and electrocution incidents.

July 2019 to May 2020
Position: Deputy Support Operations Director
United States Army
Kuwait

Managed a staff of 102 personnel to coordinate and synchronize the movement of all personnel, equipment, and supplies throughout the Middle East. Coordinated the information exchange between Materiel Management Staff, Human Resources Operations Staff, and the Transportation Operations Staff. Planned and monitored the execution of distribution operations. Responsible to collect, collate, and analyze support information. Synchronized operations within the distribution system to maximize throughput and follow-on sustainment. Responsible for advising the Support Operations Director on capability/capacity shortfalls. Serve as the Support Operations Director in her absence.

March 2010 to June 2019
Position: Project Engineer - Electrical
Schaefer Engineering, Inc.
Wentzville, Missouri

Investigate electrical faults and malfunctions, particularly those suspected of causing a fire or equipment damage. Failure analysis of electrical components and systems. Reconstruct accidents to determine the mode of failure. Analyze various types of electrical equipment and appliances on-site and/or in the laboratory to determine the cause or result of an incident. Investigate the cause of electrical shock and electrocution incidents.

May 2009 to February 2010
Position: Assistant to Department Director
United States Army
Iraq

Managed a staff of 76 personnel in an organization of over 800 personnel responsible for planning, coordinating and providing combat logistical support to other organizations within the Baghdad Area of Operations. Responsible for monitoring personnel strength, mobilization/deployment planning, security, training, logistics, family readiness, discipline and all other activities which promote mission readiness. Responsible for all maintenance and associated systems within the organization which promoted mission readiness. Performed as Department Director in his absence.

November 2006 to April 2009
Position: Project Engineer - Electrical
Schaefer Engineering, Inc.
Wentzville, Missouri

Investigate electrical faults and malfunctions, particularly those suspected of causing a fire or equipment damage. Failure analysis of electrical components and systems. Reconstruct accidents to determine the mode of failure. Analyze various types of electrical equipment and appliances on-site and/or in the laboratory to determine the cause or result of an incident. Investigate the cause of electrical shock and electrocution incidents.

November 2005 to November 2006
Position: Project Engineer - Electrical
SEA, Limited
St. Louis, Missouri

Investigate electrical faults and malfunctions, particularly those suspected of causing a fire or equipment damage. Failure analysis of electrical components and systems. Reconstruct accidents to determine the mode of failure. Analyze various types of electrical equipment and appliances on-site and/or in the laboratory to determine the cause or result of an incident. Investigate the cause of electrical shock and electrocution incidents.

November 2004 to October 2005
Position: Team Chief
United States Army
Indianapolis, Indiana

Supervised a 10 personnel team. Responsible for all administrative functions of the team. Responsible for planning, executing and evaluating collective training is support of Army Reserve and National Guard units mobilized in support of military operations ensuring the units are properly trained and prepared to deploy.

September 2001 to October 2004
Position: Project Engineer - Electrical
SEA, Limited
St. Louis, Missouri

Investigate electrical faults and malfunctions, particularly those suspected of causing a fire or equipment damage. Failure analysis of electrical components and systems. Reconstruct accidents to determine the mode of failure. Analyze various types of electrical equipment and appliances on-site and/or in the laboratory to determine the cause or result of an incident. Investigate the cause of electrical shock and electrocution incidents.

April 2001 to July 2001
Position: Metropolitan Deployment Network Engineer
Core Express
St. Louis, Missouri

Planned, designed, and deployed fiber-optic Metropolitan Area Networks (MAN). Planned, designed, and deployed MAN expansions of fiber and collocation sites. Established and maintained vendor relationships, formulating practices to support engineering, operational, maintenance, and support issues. Developed network requirements to complete network design. Researched technology to determine best possible solutions for network functionality. Interfaced with real estate and legal representatives for negotiation of contracts and leases. Managed contractors utilized in deployment with Regional Network Engineers and Metropolitan Technology Installation Teams.

July 2000 to March 2001
Position: Regional Network Engineer
Core Express
St. Louis, Missouri

Provided requirements for and design of MANs including targeting, routing, and connectivity. Utilized extensive experience with Cisco/Cerent, Juniper, and ONI networking equipment and installation to extend and maintain MANs, Wide Area Networks, and Local Area Networks. Established relationships with local, market specific vendors including contractors and building management representatives.

July 1999 to July 2000
Position: Administrative Service Supervisor
United States Army
Fort Benning, Georgia

Provided administrative services for a 703-person organization. Services included all aspects of managing human resources. Supervised a staff of eight administration personnel. Worked sensitive protocol and scheduling issues for the department director.

July 1998 to July 1999
Position: Assistant to Department Director
United States Army
Fort Benning, Georgia

Managed a fleet of 18 multi-million dollar specialized vehicles. Directed personnel actions for a department of 108 personnel. Ensured quality work environment for employees as well as administering benefits for families in accordance with military requirements. Performed as Department Director in his absence.

April 1997 to July 1998
Position: Unit Level Supervisor
United States Army
Fort Benning, Georgia

Supervised a work unit with 31 employees. Provided employee evaluations and managed human resources activities. Managed a special fleet of vehicles assigned exclusively to the work unit.

III. Professional Registration

Registered Professional Engineer in the States of Missouri, Illinois, Arkansas, Kansas, Indiana, Oklahoma, Alabama, Kentucky, Nebraska, Tennessee, Wisconsin, Ohio, Minnesota, South Dakota, and Iowa.

Certified Fire and Explosion Investigator (NAFI- CFEI), National Association of Fire Investigators.

Certified Fire Investigator (IAAI-CFI), International Association of Arson Investigators.

Private Fire Investigator (PFI), State of Missouri.

IV. Professional Affiliations

National Fire Protection Association (NFPA)
International Association of Arson Investigators (IAAI)
Arkansas Chapter, International Association of Arson Investigators (Arkansas IAAI)

- 2nd Vice President: 2023 – 2025
- 1st Vice President: 2025 - present
- Training & Education Committee Chair: 2023 – 2025
- Training & Education Committee: 2025 - present

Missouri Chapter, International Association of Arson Investigators (Missouri IAAI)
Illinois Chapter, International Association of Arson Investigators (Illinois IAAI)
Institute of Electrical and Electronics Engineers (IEEE)
National Association of Fire Investigators (NAFI)

V. Continuing Education

2026 – St. Louis Fatal Flash Powder Explosion Case Study, IAAI
2026 – Forensic Electrical Investigation Testing and Demonstrations: When should Fire Investigators Perform Testing, IAAI
2026 – Analyzing the Validity of the Tools Utilized in Fire Investigations, IAAI
2026 – Understanding How Fugitive Gas Releases Can Result in Flash Fires or Explosions: The Lurking Hazards in Outdoor Kitchens & Recreational Vehicles, IAAI
2026 – Understanding Vertical Fire Spread: Dynamics & Mechanisms, IAAI
2026 – An Introduction to Turbulent Flow Patterns, IAAI
2026 – Evidence Based Tools for Fire Analysis, IAAI
2026 – The Standard of Care for an Explosion Dynamics Expert, IAAI
2026 – Everything You Wanted to Know About Electrical Service Fires and Were Afraid to Ask, IAAI
2026 – Who Needs Instructions? Factory-Built Chimney and Fireplace Deficiencies - How Fires Start, IAAI
2026 – Asbestos Operations and Maintenance Refresher, The Asbestos Institute
2025 – Farm Equipment Fire Investigations, Arkansas Chapter IAAI
2025 – Ethics in Fire Investigations, Arkansas Chapter IAAI
2025 – National Insurance Crime Bureau Overview, Arkansas Chapter IAAI
2025 – Live Burn Demonstration, Arkansas Chapter IAAI
2025 – Understanding Large Equipment Thermal Events, Arkansas Chapter IAAI
2025 – Asbestos Operations and Maintenance Refresher, The Asbestos Institute
2025 – Industrial Smart Devices & Fire Investigations, Tennessee Chapter IAAI
2025 – Solar and Battery Storage Systems, Tennessee Chapter IAAI
2025 – Human Factors & Driver Behavior in MVA, Tennessee Chapter IAAI
2025 – Vehicle Fire Investigation, Tennessee Chapter IAAI
2025 – Trace the Truth: A Guide to Evidence Collection, Tennessee Chapter IAAI
2025 – The Critical Role of Smoke Detection in Fire Safety, Tennessee Chapter IAAI
2024 – Fire Protection Structures and Systems, Arkansas Chapter IAAI
2024 – Investigation of Fuel Gas and Explosions, Arkansas Chapter IAAI
2024 – Fire Evidence: Collection, Preservation and Analysis, Arkansas Chapter IAAI
2024 – Indiana Engineers' Laws & Rules, Vector Solutions

2024 – Ethical Decision Making for Engineers, Vector Solutions
2024 – Asbestos Operations and Maintenance Refresher, The Asbestos Institute
2024 – NFPA 1321: NFPA and Fire Investigations, Arkansas Chapter IAAI
2024 – Local Fire Agencies and Their Roles, Arkansas Chapter IAAI
2023 – Agriculture & Heavy Equipment Fires, Arkansas Chapter IAAI
2023 – Gas Leaks & Explosions, Arkansas Chapter IAAI
2023 – Chimney Fires, Arkansas Chapter IAAI
2023 – Electrical Basics for Fire Investigators, Arkansas Chapter IAAI
2023 – Juvenile Fire Setter, Arkansas Chapter IAAI.
2023 – Fall Protection Safety, Safety Training Resources
2023 – NFPA 1033, 921, and 1321 for the Fire Investigator on the Front Line, Illinois and Missouri Chapters IAAI
2023 – Why/How EUOs Can Help & Case Study on Recent Jury Verdicts (Legal Considerations), Arkansas Chapter IAAI
2023 – Solar and Battery Storage Systems, Arkansas Chapter IAAI
2023 – Asbestos Operations and Maintenance Refresher, The Asbestos Institute
2023 – Cell Phone Data Collection and Data Retrieval, DRI Webinar
2022 – Electrical Fire Investigation, Arkansas Chapter IAAI
2022 – Fire Investigations 101, Arkansas Chapter IAAI
2022 – Indiana Engineers' Laws and Rules, Vector Solutions
2022 – NFPA 921 Update, Arkansas Chapter IAAI
2022 – Fire Deaths, Arkansas Chapter IAAI
2022 – Asbestos Awareness Refresher Training, BlueSky / Schaefer Engineering
2021 – Digital Photography and the Fire Investigator, IAAI
2021 – Critical Evaluation and Testing of Commonly Reported Accidental Causes, IAAI
2021 – Lithium-Ion Battery Fires, IAAI
2021 – LP & Gas fires, Arkansas Chapter IAAI
2021 – NFPA 1033 refresher, Lithium Batteries, Understanding Subrogation, Arkansas Chapter IAAI
2021 – Anti-Harassment Training for All Employees, Red Vector
2021 – Asbestos Operations Maintenance Refresher Training, BluSky
2020 – Ethics for Professionals, Red Vector
2020 – Asbestos Operations & Maintenance Refresher, The Asbestos Institute
2019 – Introduction to Residential Solar Systems, Missouri Chapter IAAI
2019 – Introduction to Materials and Metallurgy, Missouri Chapter IAAI
2019 – Bits, Bytes, Flights, and More: New Technology for the Fire Investigator, Missouri Chapter IAAI
2019 – Working at Heights (Fall Protection), Safety Training Resources
2019 – Fork Lift Operation Training, Safety Training Resources
2019 – Live Burn Testing, Wolf Creek Fire Department
2019 – Conducting your Investigation for the Courtroom & Putting it all Together, Central Illinois Fire Investigators Association
2019 – Creating an Effective C.V., Central Illinois Fire Investigators Association
2019 – Electricity and Fire, Central Illinois Fire Investigators Association
2019 – Asbestos Operations & Maintenance Training, Environmental Safety Training Center
2018 – Scene Safety Assessment, Arkansas Chapter IAAI
2018 – Fatality Fire Investigation, Arkansas Chapter IAAI
2018 – Evidence Collection Processing the fire scene, Illinois State Police and ATF, ISP SFM Assistance in processing the Fire Scene, Illinois Chapter IAAI

2018 – Laws relating to Fire Investigation, Evidence Procedures and Crime Scenes, Illinois Chapter IAAI
2018 – Fire Dynamics and the Fire Scene, Illinois Chapter IAAI
2018 – Heavy Equipment Fire Investigations, Arkansas Chapter IAAI
2018 – New Technology for the Fire Investigator, Arkansas Chapter IAAI
2018 – Asbestos Operations & Maintenance Training, Environmental Safety Training Center
2017 – Fire Prevention & Investigation Conference, Arkansas Chapter IAAI
2017 – Asbestos Operations & Maintenance Training, Environmental Safety Training Center
2016 – Fire Investigation Training, Arkansas Chapter IAAI
2016 – Motor Vehicle Fires, CFI Trainer.net
2016 – Annual Training Conference, Missouri Chapter IAAI
2016 – Post Blast Investigations, Arkansas Chapter IAAI
2016 – Asbestos Operations & Maintenance Training, Environmental Safety Training Center
2015 – Fire Experts in Today's Courts, NASP, Webinar
2015 – Asbestos Operations & Maintenance Training, Environmental Safety Training Center
2014 – Asbestos Operations & Maintenance Training, Environmental Safety Training Center
2014 – Legal Aspects of Fire Investigations, Arkansas Chapter IAAI
2013 – Asbestos Operations & Maintenance Training, Environmental Safety Training Center
2013 – Personal Productivity and Customer Relationship Management, Schaefer Engineering
2012 – Training and Live Burn Exercise, EFI Global
2011 – Annual Conference/Fire Investigation Training, Illinois Chapter IAAI
2011 – Communication and Customer Relationship Management, Schaefer Engineering
2010 – National Fire Protection Association, National Electrical Code Essentials
2010 – Fire Prevention & Investigation Spring Conference, Arkansas Chapter IAAI
2010 – Intermediate Leader Education, US Army Command and General Staff College
2008 – Annual Conference/Fire Investigation Training, Illinois Chapter IAAI
2008 – Annual Conference/Fire Investigation Training, Southern Zone Illinois Chapter IAAI
2007 – Advanced Electrical Overcurrent Protection, IEEE Missouri Conference Workshop
2007 – Electrical Overcurrent Protection, IEEE Missouri Conference Workshop
2007 – Annual Conference/Fire Investigation Training, Southern Zone Illinois Chapter IAAI
2006 – Annual Conference/Fire Investigation Training, Illinois Chapter IAAI
2004 – Annual Conference/Fire Investigation Training, Illinois Chapter IAAI
2004 – Live Burn Testing, IAAI accredited, Columbus, Ohio
2003 – Annual Conference/Fire Investigation Training, Illinois Chapter IAAI
2002 – Annual Conference/Fire Investigation Training, Illinois Chapter IAAI
2002 – Annual Conference/Fire Investigation Training, Missouri Chapter IAAI
2002 – Global Atmospherics, Inc.
1999 – SONET Fiber Optic Design and Implementation

VI. Courses Instructed

Vehicle Fires: Vehicle Fire Analysis and Case Studies of Specific Product Related Defects – September 2007, Annual Conference of the Iowa Chapter IAAI.

Investigating Subrogation Losses: A Team Approach to Fire Investigation – April 2008, Annual Farm Bureau Fire & Fraud Seminar.

Characteristics of Recessed Light Fixtures – October 2010, Fire Prevention & Investigation Fall Conference of Arkansas Chapter IAAI.

Electrical Engineers in Residential Fires – May 2011, Shelter Insurance Company

An Update on Electrical Investigation Topics – March, 2012, Central Illinois Fire Investigators Association Fire Investigation Training Conference

Electrical Investigation Topics – October, 2012, Illinois Office of the State Fire Marshall

Digital Documentation – September, 2014, Fire Investigation Training Conference of the Illinois Chapter IAAI.

Digital Documentation – October 2014, Fire Investigation Training Conference of the Arkansas Chapter IAAI.

Cellulose Insulation and Heat Producing Appliances & Devices – August 2015, Ozark Firefighters Association.

Digital Documentation – June 2016, Fire Investigation Training Conference of the Missouri Chapter IAAI.

Investigating Motor Vehicle Fires, Subject Matter Expert – 2016, IAAI CFITRainer.net

Electrical Appliance / Device Fires – April 2017, Fire Prevention & Investigation Conference of the Arkansas Chapter IAAI.

Burn Cells and Demonstrations – April 2017, Fire Prevention & Investigation Conference of the Arkansas Chapter IAAI.

Determine Origin, Cause & Responsibility Relating to Electrical – April 2019

Electrical Appliance & Device Fires – May 2019, Missouri Chapter IAAI

Investigating Residential Electrical Systems – April 2023, Arkansas Chapter IAAI

Investigating Residential Electrical Systems – October 2024, Arkansas Chapter IAAI

Interviewing Techniques & Tips – October 2024, Arkansas Chapter IAAI

Investigating Residential Electrical Systems – May 2025, Tennessee Chapter IAAI