

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

February 2025

**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 in 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, and Wisconsin.

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)

- 2<sup>nd</sup> Vice President: 2023 – present
- Training & Education Committee Chair: 2023 - 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**

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 2023, Arkansas Chapter IAAI

Interviewing Techniques & Tips – October 2023, Arkansas Chapter IAAI