
Michael Lilien | Forensic Electrical Engineer, P.E., C.F.E.I.

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Professional Summary:

Mr. Lilien's range of engineering experience is wide and deep. He has worked as a forensic engineer, managing projects as varied as home and vehicle fires to product testing, evaluation, and investigation. Mr. Lilien has spent considerable time at electric utilities working in construction project management, field and distribution operations, standards writing and design review. While in manufacturing Mr. Lilien lead engineering teams, done considerable troubleshooting of product and testing issues, and product research, development and design. Most recently Mr. Lilien has acted as an electrical engineering consultant for DEMSI, Inc. in a mediation case for the Federal Emergency Management Agency (FEMA) in New Orleans, LA.

His areas of expertise include, but are not limited to:

- Forensic Project Management
- Electrical Failure Analysis
- Product Testing and Experimentation
- Residential and Commercial Fire Investigation
- Vehicle Fire Investigation
- Design/Drawing Production and Review
- Technical Writing
- Project Work Efficiency Methods

Licenses and Certifications:

Professional Engineering, Missouri, License #2018037496

Professional Engineering, Arkansas, License #18549

Professional Engineering, California, License #19847

Professional Engineering, Illinois, License #062-072249

Professional Engineering, Iowa, License #P25978

Professional Engineering, Kansas, License #27650

Professional Engineering, Louisiana, License #0045971

Professional Engineering, Washington, License #21035607

National Council of Examiners for Engineers and Surveyors, License #12-516-37

Certified Fire and Explosion Investigator, NAFI, #23657-14780

Project Experience:

DEMSI Incorporated, Austin, TX
Electrical Engineering and Mediation

Acted as a mediator in a dispute between FEMA and Holy Cross School, New Orleans, LA. The dispute stems from the re-building of the school after Hurricane Katrina destroyed it in 2005.

Ameren Missouri, Jefferson City, MO
Smart Energy Capital Project Design and Management

Handled all multi-million-dollar capital project work outside of the St. Louis/Metro area for Ameren. This included all distribution, substation, and transmission projects for the regional territories of Ameren Missouri.

Schaefer Engineering, Wentzville, MO
Customer Product Personal Injury Claim

Investigated the personal injury claim against a baby-bottle warmer manufacturer through interviews, product dissection, and experimentation.

San Diego Gas & Electric Company, San Diego, CA
Field Engineer and Distribution Operations Supervisor

Acted as storm damage assessment coordinator for the largest district by land area in SDG&E's territory for three years, including major firestorms. Supervised Distribution System Operators for both normal and storm-related switching situations.

Professional Experience:

EFI Global, Incorporated, Forensic Electrical Engineer, Present
DEMSI, Incorporated, Electrical Engineering Consultant, 2019 – 2020
Ameren Missouri, Senior Electrical Engineer, 2019
Schaefer Engineering, Project Manager, 2018-2019
ABB, Incorporated, Electrical Engineering Manager, 2012-2018
San Diego Gas & Electric Company, Senior Electrical Engineer, 2003-2012

Specialized Education:

Fire Investigation for Fire Officers, CFITrainer.net, 2020
Principles of Fire Investigation, CFITrainer.net, 2020
Various Fire Investigation Modules, CFITrainer.net, 2020
Six Sigma Yellow Belt, ABB, Incorporated, 2018
4Q and Kaizen Improvement Methodology, ABB Incorporated, 2017
Doble Engineering Devices, Doble Engineering, 2012
SEL Relay University, Schweitzer Engineering Laboratories, 2011

Education:

Master of Art, Business Administration, University of Missouri, Columbia, MO, 2015
Bachelor of Science, Electrical Engineering, University of Illinois, Champaign-Urbana, IL, 2003

Affiliations:

International Association of Arson Investigators (IAAI)
Institute of Electrical and Electronic Engineers (IEEE)
National Association Fire Investigators (NAFI)
National Society of Professional Engineers (NSPE)
Missouri Society of Professional Engineers (MSPE)

Courses Instructed/ Guest Lecturer:

Wildfire and Utility Equipment, IAAI- CFITrainer.net, 2022
Utility Equipment 101, EFI Global Wildfire Investigators, 2021
Utility Engineering, Ameren Missouri, 2019
Transformer Training Course, Hawaiian Island Utility Group, 2018

Honors and Awards:

Christ-like Service and Devotion Award, Upwards Basketball League, Columbia, MO, 2019
Grainger Power Engineering Award, Department of Electrical Engineering, University of Illinois, 2003