

## Michael Lilien | Forensic Electrical Engineer, P.E.

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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

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

### 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.

**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:**

Transformer Training Course, Hawaiian Island Utility Group, 2018  
Utility Engineering, Ameren Missouri, 2019

**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