



## Douglas J. Barovsky | Principal Forensic Electrical Engineer, P.E., C.F.E.I.

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### Professional Summary:

Mr. Barovsky is an Electrical Engineer with 35+ years of experience including fourteen (14) years in the aerospace sector with seven (7) years as a Federal Aviation Administration (FAA) Designated Engineering Representative (DER). He is a registered Professional Engineer and a Certified Fire and Explosion Investigator (CFEI). Mr. Barovsky specializes in fire origin and cause (O&C) investigations, including fire scene inspection, excavation, evidence identification, recovery and preservation, and analysis of fire debris. His experience includes fire and explosion investigations in residential, commercial and industrial environments, buildings, vehicles, motor homes and marine vessels. He has experience with electrical/electronic design review, product failure analysis, personal injury claims, and government and industry regulatory and standards compliance. Mr. Barovsky also has experience investigating aircraft accidents and component and system failures.

### Areas of Expertise:

- Fire and explosion origin and cause
- Residential, commercial, and industrial equipment and system failure analysis
- Product failure analysis – electrical, electronic, and gas appliances and equipment
- Fixed wing and rotorcraft accident investigation and analysis
- Government regulatory and industry standards compliance
- Fire debris – examination, documentation, testing and analysis
- Electric shock and electrocution analysis
- Lithium-ion battery failure analysis

### Licenses and Certifications:

Professional Engineer, Washington, License #38422  
Professional Engineer, Alaska, License #106456  
Professional Engineer, Idaho, License #21386  
Professional Engineer, Montana, License #85597PE  
Certified Fire & Explosion Investigator (CFEI), NAFI,  
Certified Marine Technician – Marine Electrical, ABYC  
Technician Class Amateur Radio License

### Court Qualifications/Depositions:

Litigation CV available upon request.

### Professional Experience:

Engineering Systems, Inc. (ESi), Sr. Consultant, 2016 – 2022  
MDE Inc., Owner/Principal/Engineer, 2003 – 2016  
The Boeing Co., Sr. Lead Engineer & FAA DER, 1987 – 2003

### Specialized Education:

National Electric Code 2017, 2014, 2005, 2002  
Standard for Electrical Safety in the Workplace (NFPA 70E-2018)  
Arc Flash Awareness and Analysis  
Aerial High-Lift Safety and Operation  
Beckett Residential Burner Program  
Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas  
Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas  
Cold Regions Engineering Short Course  
Confined Space Entry  
DER Recurrent Training Seminar  
Design of Electric Power Systems I & II  
Electricity & Fire Investigation Course  
IC Design and Fabrication  
Investigation of Gas and Electric Appliance Fires  
Investigation of Electrical and Appliance Related Fires  
National Fire, Arson and Explosion Investigation Training Program  
Power Distribution System Grounding and Transients

### Education:

BSEE, Electrical Engineering, Seattle University, Seattle, WA, 1987

### Affiliations:

The Institute of Electrical and Electronics Engineers (IEEE) – member  
American Society of Materials (ASM International) – member  
International Association of Arson Investigators (IAAI) – member  
National Association of Fire Investigators (NAFI) – member/CFEI  
National Fire Protection Association (NFPA) – member  
Society of Automotive Engineers (SAE) – member  
American Boat and Yacht Council (ABYC) – member/Certified Marine Technician

### Courses Instructed/Guest Lecturer:

"Electric Vehicle Fire Investigations," Washington State Trial Lawyers Association, 2014  
"Lightning Risk Management," Washington Schools Risk Management Pool, 2013  
"Electrical Fire Cause Analysis," Oregon IAAI Chapter Meeting, 2009  
"Failure Analysis: Preservation of Evidence," 30th Annual Pacific Northwest Aviation Law and Insurance Seminar, 2003