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

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Professional Summary:

Mr. Barovsky is an Electrical Engineer with 34+ 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
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