Kevin Slotty, MIAAI-CFI, CFEI | Principal Fire Investigator

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Professional Summary:

Kevin is a distinguished professional with 29 years of extensive experience in the fire service, training and as a fire investigator. Over the course of his illustrious career, he has demonstrated an unwavering commitment to advancing the field of fire investigation and forensic engineering. His expertise is underscored by his foundational role at the Federal Emergency Management Agency (FEMA), where he utilized his skills in disaster response and management, contributing significantly to national safety protocols and emergency preparedness strategies.

Throughout his career, Kevin has been involved in numerous high-profile investigations that have required meticulous attention to detail and an analytical approach to problem-solving. His work has often involved investigations of catastrophic fires, where he meticulously reconstructs events to determine the origin and cause of the fire. His ability to integrate scientific principles with practical application allows him to provide clear, concise, and actionable reports that are widely respected within the legal and insurance communities.

Kevin's impact on the field of fire investigation is profound, and his work continues to contribute to the safety and well-being of communities worldwide. He embodies the spirit of professionalism and scientific inquiries, making him a leading figure in forensic fire investigation and a trusted resource for agencies, organizations, and individuals alike. His legacy is characterized by a dedication to excellence, a passion for education, and an unwavering commitment to the truth, ensuring that he will continue to influence the field for years to come.

Areas of Expertise:

- Catastrophic Fire, Explosion
- Large loss and Complex Fires
- Marine, Vessels, Aircraft and Ship Fires
- Fire Protection Systems and Failures

Licenses and Certifications:

Private Detective, WI DSPS, WI, License #11402-63
Private Detective, IDFPR, IL, License #129.311970
Private Detective, MN DPS, MN, License #980
Private Detective, IA DPS, IA, License #124390
CFI, IAAI, International, License #21-111035
CFEI, NAFI, International, License #8028-6300
sUMA, FAA, Federal, License #393815

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Project Experience:

Case details generalized to maintain confidentiality.

EFI Global, Lauderdale Lakes, WI
Marine Explosion & Fatality Investigation (Representative Marine Fire Investigation Case)
Led the investigation of a fatal commercial barge explosion, conducting an NFPA 921-compliant origin and cause analysis that determined the probable cause to be gasoline vapor accumulation and ignition. Oversaw vessel recovery, evidence preservation, and coordination with law enforcement, regulatory agencies, insurers, and legal counsel. Authored comprehensive investigative reports and identified critical marine fuel vapor detection deficiencies with significant safety and risk management implications.

EFI Global, Clearfield, IA
Large Loss Agricultural Facility Fire Investigation (Commercial Poultry Production Complex)
Led a high-profile investigation of a catastrophic agricultural fire impacting an 11-building commercial poultry complex. Directed a week-long Joint Scene Examination involving 80+ investigators and subject-matter experts, overseeing origin and cause analysis, evidence recovery, and multidisciplinary collaboration. Consolidated technical findings into investigative conclusions supporting regulatory, insurance, and legal proceedings.

EFI Global, Multi-State Incident
Marine Fire Loss Subrogation Investigation (Large Recreational Marine Vessel Fire)
Led the investigation of a significant marine fire loss involving a large recreational vessel, conducting an NFPA 921-compliant origin and cause analysis that identified electrical installation deficiencies and maintenance-related factors as key contributors. Coordinated multi-state vessel recovery and forensic examinations, including detailed evaluation of electrical components and system integrity, developing findings that supported liability assessment, subrogation, and litigation.

Court Qualifications/ Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global, Principal Fire Investigator, 2017 – Present
Slotty and Associates, President and Principal Fire Investigator 2003 – 2017
Ethos Risk Services, SIU / Field Investigator, 2014 – 2018
South Shore Fire Department, Sturtevant, WI. Lieutenant / Lead Fire Investigator. 1999 – 2014
Racine County Fire Investigation Task Force. Racine, County, WI. Captain / Lead Fire Investigator. 2007 – 2014
G4S Compliance and Investigation. Raleigh, NC. Fire Investigator. 2007 – 2012

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Specialized Education:

Mr. Slotty focuses on assessing fire protection system failures, determining whether these systems functioned properly and complied with relevant codes. His expertise encompasses a wide range of systems, including but not limited to kitchen suppression systems, specialized systems for computers, clean agent systems, as well as those used in yachts, boats, vessels, and marinas. The systems he evaluates include Sea-Fire, Fire Boy, both engineered and pre-engineered systems, Fike systems, Kiddie systems, commercial sprinkler systems, halon systems, and fire extinguishers.

Education:

2-year degree, Fire Protection Technician / Emergency Management. Waukesha, WI.

Affiliations:

International Association of Arson Investigators. (IAAI)
International Association of Arson Investigators Illinois Chapter 12.
International Association of Arson Investigators Minnesota Chapter 16.
National Association of Fire Investigators. (NAFI)
International Association of Fire Fighters. (IAFF) *Retired*
Wisconsin State Firefighters Association. (WSFA) *Retired*
National Fire Protection Agency. (NFPA)
State of Wisconsin Department of Commerce Fire Inspector Association. *Retired*
Wisconsin State Firefighters Association. (WSFA) *Retired*
State of Wisconsin Department of Commerce Fire Inspector Association. *Retired*
Wisconsin Chapter 25. (IAAI)
Alaska Association of Fire & Arson Investigators (AAFAI)
Maritime Academy

Courses Instructed/ Guest Lecturer:

UV Light for Fire Investigations. (RCFITF)
Vehicle Investigations. (Sentry insurance)
Alaska Association of Fire & Arson Investigators (AAFAI) Instructor. Fire Investigations Fundamental Class
Commercial Kitchen Fires, Bulter, PA

Publications and Presentations:

"Products of Incomplete Combustion" Published in the Milwaukee Journal. (2001)

Honors and Awards:

Mukwonago Fire Department Outstanding Service Award "Fire of a Lifetime" (Presented in Firehouse Magazine).
EFI Global 2020-2021 Pinnacle award. Top 5 Fire Sciences / Fire Investigations.
EFI Global 2021-2022 Pinnacle award. Top 5 Fire Sciences / Fire Investigations.
EFI Global 2022-2023 Pinnacle award. Top Producer, Fire Sciences / Fire Investigations.

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Continuing Training and Education:

Federal and State.

(FEMA) IS-208 State Disaster Management.
(FEMA) IS-700 National Incident Management System Training.
(FEMA) IS-800 National Incident Management System Training.
(FEMA) IS-230 Principles of Emergency Management.
(FEMA) IS-292 Disaster Basics.
(FEMA) IS-0001 Emergency Manager.
(FEMA) IS-241 Decision Making and Problems Solving.
(FEMA) IS-801 Emergency Support Function (ESF) # 1-Transportation.
(FEMA) IS-804 Emergency Support Function (ESF) # 4-Firefighting.
(FEMA) IS-805 Emergency Support Function (ESF) # 5-Emergency Management.
(FEMA) IS-808 Emergency Support Function (ESF) # 8-Public Health and Medical.
(FEMA) IS-809 Emergency Support Function (ESF) # 9-Search and Resource.
National Fire Academy Incident Command for Structural Collapse.
(FEMA) NIMS 100 National Incident Management System Training.
(FEMA) NIMS 200 National Incident Management
(FEMA) NIMS 400 National Incident Management System
(FEMA) DHS Incident Response of Terrorist Bombings. Explosions training, NM
Hazardous Material Operations level.
Hazardous Material Operation Awareness level.

Fire and Thermodynamics.

6-2026 IAAI WI Chapter 25 Spring Seminar Chapter 25 General Session. (28hrs Tested)
1-2026 IAAI Electric and Hybrid Vehicles Fires (2hrs Tested)
1-2026 IAAI Electric and Hybrid Vehicles Design Basics (2hrs Tested)
1-2026 IAAI Introduction to Appliances (2hrs Tested)
6-2026 IAAI WI Chapter 25 Spring Seminar Chapter 25 General Session. (28hrs Tested)
1-2026 IAAI Electric and Hybrid Vehicles Fires (2hrs Tested)
1-2026 IAAI Electric and Hybrid Vehicles Design Basics (2hrs Tested)
1-2026 IAAI Introduction to Appliances (2hrs Tested)
6-2025 IAAI WI Chapter 25 Spring Seminar Chapter 25 General Session. (28hrs Tested)
6-2025 Process of Elimination. (3hrs Tested)
1-2024 IAAI DNA. (3hrs Tested)
9-2024 IAAI Fundamentals of Interviewing. (4hrs Tested)
9-2024 IAAI Thermometry, Heat and Heat Transfer. (3hrs Tested)
1-2025 IAAI Commercial Kitchen Fires 1: Investigations (3hrs Tested)
3-2025 WI Chapters 25 & IL 12 IAAI, Electricity and Fire Causes (6hrs Completed)
9-2024 IAAI Thermometry, Heat and Heat Transfer. (3hrs Tested)
9-2024 IAAI Commercial Kitchen Fires 1: Fundamentals. (3hrs Tested)
9-2024 IAAI Fundamentals of Interviewing. (4hrs Tested)
1-2024 IAAI DNA. (3hrs Tested)
3-2023 IAAI MN Report Writing (2.5hrs Tested)
3-2023 IAAI MN Vetting and Assembling Your Fire Investigation Team. (4hrs Tested)
3-2023 IAAI MN Introduction to Hyrid and Electric Vehicles Fires. (2hrs Tested)
3-2023 IAAI MN Motor Vehicle Fluid Heater Failures. (1hr Tested)

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3-2023 IAAI MN Failure Analysis of Residential Dehumidifiers. (1hr Tested)
3-2023 IAAI MN Alternative Energy Systems. (4hrs Tested)
5-2023 IAAI Fire Effects Part 1 Heat Effects on Fuels. (3hrs Tested)
9-2022 IAAI WI Chapter Fall Seminar. Explosive Devices, Fire/Explosion Studies, Clandestine/Meth
Labs. (20hrs Tested)
6-2022 IAAI WI Chapter Spring Seminar. Electrical & Vehicle Fires, Serial Arsonist, Fire Protection Systems. (20hrs Tested)
2-2021 IAAI Fire Chemistry. (3hrs Tested)
12-2021 IAAI Lithium-Ion Battery Fires. (3hrs Tested)
12-2021 IAAI Alternative Fuel Vehicles. (3hrsTested)
10-2021 IAAI WI/IL Chapter seminar. Complex Investigations. (8hrs Tested)
6-2021 IAAI WI Chapter spring seminar. Research utilizing Internet, Boston Burn. (20hrs Tested)
10-2020 IAAI NFPA 921 Chapter 8 Active Fire Protection Systems Certificates. (2hrs Tested)
9-2019 IAAI WI Chapter fall seminar. Forensic Interviews, Gas Explosions, Fatal Fires (20hrs Tested)
9-2018 IAAI WI Chapter fall seminar. Arson for Profit case. (20hrs Tested)
6-2018 IAAI WI Chapter spring seminar, ATF case studies. (20hrs Tested)
5-2018 OSHA Asbestos Awareness. (3hrs Tested)
4-2017 Motor Vehicles: The Engine and The Ignition, Electrical and Fuel Systems. (3hrs Tested)
4-2017 IAAI Ethical Duties beyond the Fire Scene. (3hrs Tested)
4-2017 IAAI Accreditation, Certification, and Certificates. (3hrs Tested)
10-2015 International Association Arson Investigators Certified Fire Investigator. (CFI)
8-2015 IAAI NFPA 1033 and your Career. (2hrsTested)
6-2015 IAAI Basic Electricity. (4hrs Tested)
6-2015 IAAI Residential Electrical Systems. (4hrs Tested)
6-2015 NAFI Fire Chemistry. (3hrs Tested)
5-2013 IAAI Writing The Initial Origin and Cause Report. (3hrs Tested)
2-2012 IAAI Explosion Dynamics. (4hrs Tested)
5-2013 IAAI Writing The Initial Origin and Cause Report. (3hrs Tested)
2-2012 IAAI Explosion Dynamics. (4hrs Tested)
2-2012 Electrical Safety (3hrs Tested)
7-2012 IAAI Fire Dynamic Calculations. (4hrsTested)
2-2012 IAAI Electrical Safety. (3hrs Tested)
2-2012 IAAI Explosion Dynamics. (4hrs Tested)
6-2012 IAAI Fire Protection Systems. (3hrs Tested)
6-2012 IAAI Charleston Sofa Super Store Fire. (4hrs Tested)
6-2012 IAAI Critical Thinking Solves Cased. (4hrs Tested)
8-2011 IAAI Expert Witness and Testimony. (60hrs AZIAAI Tested)
1-2010 IAAI Evidence Examination: What Happens at the Lab. (4hrs Tested)
7-2010 IAAI Wildland Fire Investigations. (5hrs Tested)
1-2010 IAAI The HAZWOPER Standard. (4hrs Tested)

Marine Education and investigations.

4-2026 Lloyd's Maritime Institute: Ship Casualty and Incident Investigation. (52hrs Tested)
4-2026 Maritime Insight Academy: Introduction to Marine Diesel Engines. (2hrs Tested)
4-2026 Maritime Insight Academy: Emergency Fire Pumps On-board Ships. (2hrs Tested)
4-2026 Maritime Insight Academy: Shore Electricity Supply for Ship. (2hrs Tested)

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4-2026 Maritime Insight Academy: Bulk Carrier Design Explained (2hrs Tested)
4-2026 Maritime Insight Academy: Bridge Layout of Cargo Ships. (2hrs Tested)
8-2026 Maritime Insight Academy: Marine Alternator On Board Ships (2hrs Tested)

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