

Professional Summary:

Mr. Henrich has over thirty fire years of Fire Service experience. Eighteen years of which were directly in the field of fire and explosion incident investigations. Mr. Henrich has investigated over 900 fire scenes that have involved commercial / residential structures, large losses, vehicle / heavy construction equipment, arson investigations, and multimillion-dollar losses. Mr. Henrich has worked with Local, State and Federal agencies on many assignments in multiple capacities.

- Fire Investigations, Structural / Vehicle / Heavy Equipment
- Fire Protection Systems
- Commercial Hood Systems
- Explosives
- Hazardous Materials

Licenses and Certifications:

Certified Fire Investigator, International Association of Arson Investigators, # 24-112038

Evidence Collection Technician, International Association of Arson Investigators, #372

Motor Vehicle Fire Endorsement, International Association of Arson Investigator, # 24-112038

Certified Fire and Explosion Investigator, National Association of Fire Investigators,

12196-8457v

Certified Vehicle Fire Investigator, National Association of Fire Investigators, 12196-8457v

National Board on Fire Service Professional Qualifications Certified Fire Investigator, # 360825

Bosch CDR Tool Technician

Private Investigator, State of North Carolina, # 4950

Private Investigator, State of South Carolina, # RD216392

Private Investigator, State of Georgia, # PDE051619

Private Investigator, State of Tennessee, # 8262

Private Investigator, State of Kentucky, # 241225

Private Investigator, State of Virginia, # RE-1060821

Private Investigator, State of West Virginia, 37691

North Carolina Certified Firefighter II Certification, IFSAC # 035757

North Carolina Fire Instructor II, IFSAC # 380971

North Carolina Fire Life Safety Educator III, IFSAC # 1329128

North Carolina Fire Officer II, IFSAC # 756870

North Carolina Hazardous Materials Level I, IFSAC # 346821

North Carolina Hazardous Materials, Personal Protective Equipment, IFSAC # 1609084

North Carolina Hazardous Materials, Technical Decontamination, IFSAC # 1609167

North Carolina Hazardous Materials, Air Monitoring and Sampling, IFSAC # 1644557

North Carolina Certified Fire Investigator

North Carolina Fire Investigator Technician, IFSAC # 2736658

Project Experience:

Commercial Warehouse, Charlotte, NC Commercial Structure Fire Investigation

Lead origin and cause investigation on a commercial structure fire. The fire cause was determined to be spontaneous combustion inside a commercial floor sander dust collection bag. Investigation led to a successful subrogation recovery.

Commercial Restaurant, West Nyack New York Cause and Origin Investigation

Lead origin and cause investigation on a commercial restaurant fire that extended to upper apartments. The fire cause was a commercial fryer being left on after hours with combustible materials placed over the fryer. Investigation led to a successful subrogation recovery.

Court Qualifications / Depositions:

Litigation CV available upon request.

Professional Experience:

EFI Global, Senior Fire Investigator 2022- Present

North Carolina Office of State Fire Marshal, FIT Instructor, 2017-Present

Envista Forensics, Senior Fire Consultant, 2018-2022

Rimkus Consulting Group, Senior Fire Consultant, 2016-2018

National Forensics Consultants, Fire Consultant, 2014-2016

Swansboro Fire Department, Fire Chief, 2015-2016

Vance County Emergency Services, Fire Marshal / EMS Director, 2009-2014

Johnston County Emergency Services, Fire Marshal / Fire Investigator, 2005-2009

Clayton Fire Department, Firefighter, 2005-2007

Newport Fire Department, Firefighter / Paramedic, 2003-2005

Western Carteret Fire Department, Fire Chief, 1998-2002

Wildwood Fire Department, Fire Engineer, 1997-1999
Camp Lejeune Fire Department, Federal Firefighter, 1995-1997
North Carolina Forestry Service, Smoke Chaser/ Relief Operator, 1993-1995
Rhodestown Fire Department, Captain, 1992-1997
US Navy, Field Med Corpsman, 1989-1993
Yulan Fire Department, Volunteer Firefighter, 1986-1990

Specialized Education:

TN ATC RV Fires and their Investigation, 2022
TN ATC Law Update and Search Warrants, 2022
TN ATC Fire Investigator Safety, 2022
TN ATC Basic Fire Dynamics, 2022
TN ATC Cigarette Ignition Analysis, 2022
TN ATC Burn Stuff to Learn, 2022
TN ATC Fire Fatalities / Line of Duty Death Investigations, 2022
NFPA 1033 & 921: 2022/2021 Updates, CFITrainer.net/IAAI, 2022
Lithium-Ion Battery Fires, CFITrainer.net/IAAI, 2022
Electric Appliance Failure and Analysis, SCIAAI, 2022
Impact of Ventilation on Fire Patterns, UL Firefighter Safety Research Institute, 2022
Alternative Fueled Vehicles, CFITrainer.net/ IAAI 2021
Lithium-ion Battery Fires, CFITrainer.net/ IAAI 2021
Electric and Hybrid Vehicle Fires, CFITrainer.net/IAAI 2021
NCIAAI NFPA 921 Updates, 2020
NCIAAI Report Writing, 2020
NCIAAI Arc Evaluation and Arc Mapping, 2020
NCIAAI Post Blast Investigation 2020
2021 NFPA 921 Chapter 8 Active Fire Protection Systems, CFITrainer.net / IAAI 2020
2021 NFPA 921 Chapters 4 & 5 Methodology & Science, CFITrainer.net / IAAI 2020
2021 NFPA 921 Chapter 19 Physical Evidence, CFITrainer.net / IAAI 2020
Emerging Technologies in Fire Investigations, CFITrainer.net / IAAI 2020
OSHA 40 Hour HAZWOPER, Safety Unlimited, 2020
Asbestos Awareness, Safety Unlimited, 2020
Principles of Fire Investigation Multi-Program, CFITrainer.net / IAAI 2019
Fire Investigation for Fire Officers Multi-Program, CFITrainer.net / IAAI 2019
Explosion Dynamics, CFITrainer.net / IAAI 2019
Fundamentals of Interviewing, CFITrainer.net / IAAI 2019
Fire Flow Analysis, CFITrainer.net / IAAI 2019
Charting Your Career Path in Fire Investigations, CFITrainer.net / IAAI 2019
Critical Evaluation and Testing Commonly Reported Accidental Causes, CFITrainer.net / IAAI 2019
Fire Chemistry, CFITrainer.net / IAAI 2018
Thermometry, Heat and Heat Transfer, 2018 Fire Investigation for Fire Officers, CFITrainer.net / IAAI 2018
Motive Means and Opportunity, CFITrainer.net / IAAI 2018
Discovery in Civil Cases, CFITrainer.net / IAAI 2018
Understanding Undetermined, CFITrainer.net / IAAI 2018
NCIAAI Fire Investigation Approaches, 2017
Motor Vehicles: The Engine, Ignition, Electrical, CFITrainer.net / IAAI 2017
Motor Vehicles: Transmission, Exhaust, Brakes, CFITrainer.net / IAAI 2017

Discovery in Criminal Cases, CFITrainer.net / IAAI 2017
Effective Investigation and Testimony, CFITrainer.net / IAAI 2017
Ethics and social media, CFITrainer.net / IAAI 2017
Introduction to Youth Set Fires, CFITrainer.net / IAAI 2017
Legal Aspects of Youth Set Fires, CFITrainer.net / IAAI 2017
Ethical Duties beyond the Fire Scene, CFITrainer.net / IAAI 2017
What the Insurance Professionals Needs to Know About Fire Investigations, CFITrainer.net / IAAI 2017
Community Risk Reduction for Fire and Emergency Services, National Fire & Emergency Services Higher Education Program, FEMA, 2017
Fire Protection Structures and Systems, National Fire & Emergency Services Higher Education Program, FEMA, 2017
Personal Management for the Fire Service, National Fire & Emergency Services Higher Education Program, FEMA, 2017
Fire and Emergency Services Administration, National Fire & Emergency Services Higher Education Program, FEMA, 2017
Political and Legal Foundations in Fire Protection, National Fire & Emergency Services Higher Education Program, FEMA, 2017
Applications in Fire Research, National Fire & Emergency Services Higher Education Program, FEMA, 2017
Principals of Firefighter Safety and Survival, National Fire & Emergency Services Higher Education Program, FEMA, 2016
Fire Behavior and Combustion, National Fire & Emergency Services Higher Education Program, FEMA, 2016
NCIAAI Fire Investigation Approaches, 2016
Investigating Natural Gas Systems, CFITrainer.net / IAAI 2016
Residential Natural Gas Systems, CFITrainer.net / IAAI 2016
Post Flashover Fires, CFITrainer.net / IAAI 2016
Preparation for the Marine Fire Scene, CFITrainer.net / IAAI 2016
Managing Complex Fire Scene Investigations, CFITrainer.net / IAAI 2016
Insurance and the Fire Investigator, CFITrainer.net / IAAI 2016
How first Responders Impact the Fire Investigation, CFITrainer.net / IAAI 2016
Using Resources to Validate your Hypothesis, CFITrainer.net / IAAI 2016
The Deposition Part 2, CFITrainer.net / IAAI 2016
NCIAAI Fire Investigation Approaches, 2015
The Deposition Part 1, CFITrainer.net / IAAI 2015
Expert Witness Court Room Testimony, IAAI 2014
NCIAAI Fire Investigation Approaches, 2014
Electrical Fire Investigation, PATC 2014
Basic Electricity, CFITrainer.net / IAAI 2014
Ethics and the Fire Investigator, CFITrainer.net / IAAI 2014
Process of Elimination, CFITrainer.net / IAAI 2014
Residential Electrical Systems, CFITrainer.net / IAAI 2014
Introduction to Fire Dynamics and Modeling, CFITrainer.net / IAAI 2014
NFPA 10033 and Your Career, CFITrainer.net / IAAI 2014
Ventilation Focused Approach to the Impact of Building Structures and Systems on Fire, CFITrainer.net / IAAI 2014
Writing the Initial Origin & Cause Report, CFITrainer.net / IAAI 2014
Fire Protection Systems, CFITrainer.net / IAAI 2014
NFPA 921 & NFPA 1033, CFITrainer.net / IAAI 2014
DNA, CFITrainer.net / IAAI 2014

Education:

Bachelor of Science, Fire Administration / Fire Investigation, Columbia Southern University,
Orange Beach, AL 2018
Penn Foster, Automotive Repair Technician, Scottsdale, 2016

Affiliations:

International Association of Arson Investigators (IAAI), Member since 2010
National Association of Fire Investigators (NAFI), Member since 2005
NC Chapter of International Association of Arson Investigators, Member since 2005
TN Chapter of International Association of Arson Investigators, Member since 2020

Courses Instructed/ Guest Lecturer:

North Carolina, Fire Investigation Technician Program
Vehicle Fire Investigation
Fire Patterns
Fire Protection Systems
Building Systems
Basic Fire Methodology
Origin Determination
Cause Determination
Appliance Fires