
Chris P. Hollis | Senior Forensic Engineer, PE, CFEI, CVFI

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Professional Summary:

Mr. Hollis has career of progressive experience of more than 30 years in engineering, design, consulting, and forensics industries. Mr. Hollis is a Registered Professional Engineer, a Certified Fire and Explosion Investigator, Certified Vehicle Fire Investigator, and an ASE Certified Automobile and Medium/Heavy Truck Technician. Experienced as an ASE technician, Mr. Hollis brings an added perspective to the investigation of vehicle operation and failure analysis.

Mr. Hollis is recognized for his expertise with fuel gas equipment, appliances, fireplaces, HVAC, piping, plumbing, electrical equipment, commercial and residential wiring malfunctions, automotive and heavy truck mechanical evaluations. He has also conducted marine fire causation and mechanical failure examinations. Mr. Hollis has provided expert witness testimony via depositions and arbitration and holds a number of design Patents.

Licenses and Certifications:

Professional Engineer, TN, #114041

Professional Engineer, AL, #26318

Professional Engineer, KY, #24915

Professional Engineer, GA, #PE034876

Professional Engineer, OH, #PE79525

Professional Engineer, WV, #21067

Professional Engineer, IN, #11400751

Certified Fire and Explosion Investigator, National Association of Fire Investigators (NAFI), #11684-5562

Certified Vehicle Fire Investigator, National Association of Fire Investigators (NAFI), #11684-5562V

Auto Service Excellence (ASE) Certified Medium/Heavy Truck Technician, #ASE-2400- 9886

Auto Service Excellence (ASE) Medium/Heavy Truck Technician, Brakes

Auto Service Excellence (ASE) Certified Automobile Technician, #ASE-2400-9886 Auto Service Excellence (ASE) Automobile Technician, Engine Repair

Auto Service Excellence (ASE) Automobile Technician, Suspensions and Steering Auto Service Excellence (ASE) Automobile Technician, Brakes

HVAC Tech. Certification EPA Clean Air Section 608, #P3C2F5A32556442D0

Project Experience:

EFI Global, Inc., Nicholasville, KY Hydraulic brake failure

A loaded school bus sustained a brake failure while traveling down Signal Mountain near Chattanooga, TN. A complete removal and forensic inspection of the brake system components resulted in the cause of the event being blocked hydraulic passageways in the power booster module.

EFI Global, Inc., Nicholasville, KY Oxygen generator in use while the patient was smoking.

A patient who was smoking cigarettes while on oxygen therapy sustained burns and the subsequent fire in the nasal cannula tubing ignited nearby materials. In-line fire stop thermal fuses were evaluated and found to be effective in shutting off the flow of oxygen through the tubing.

EFI Global, Inc., Nicholasville, KY Fire protection sprinkler system pump failure

A diesel engine-powered water pump for an industrial fire protection system failed. The engine and the pump itself sustained catastrophic damages. A site inspection and review of service, testing, and contract documents revealed multiple parties shared in the responsibility.

Professional Experience:

EFI Global, Nicholasville, KY, Professional Forensic Engineer, 2014 – Present
Wright Fire & Forensics, Professional Forensic Engineer, 2012 – 2014
Independent Consultant, Professional Forensic Engineer, 2011 – 2012
Rimkus Consulting Group, Inc., Professional Forensic Engineer, 2005 – 2011
CRS Engineering, Mechanical HVAC Design Engineer, 2004 – 2005
Sebring Engineering, Mechanical HVAC Design Engineer, 2000 – 2004
Tyco Adhesives, Mechanical Designer, 1998 – 2000
Halton Company, Project Engineer, 1997 – 1998
DESA International, Product Engineer, 1995 – 1997
Temco Fireplace Products, Product Engineer, 1993 – 1995
Alabama Cryogenic Engineering, Engineer/Technician II, 1986 – 1993
Century Buick/Firestone Tire & Rubber Co, Vehicle Technician, 1982 – 1986

Specialized Education:

Law and Rule for PE's in Indiana, 2018, PDHNow, 1 PDH
Grounding and Bonding of Electrical Systems, PDHNow, 2018, 4 PDH
Ethics 1 for PE's, PDHNow, 2018, 1 PDH
Emergency and Standby Power Systems, PDHNow, 2018, 4 PDH
EE101: Introduction of Electrical Concepts for the NON-EE, PDHNow, 2018, 4 PDH

Ladder and Stairway Safety, OSHA, ANSI, and NIOSH Training, Compliance Online Training, 2017, 2 PDH
Construction Fall Protection, OSHA, 1926 Subpart M Training, Compliance Online Training, 2017, 2 PDH
Electrical Engineering for Non-Electrical Engineers, Sem-Train, LLC, 2017, 15 PDH
Design of Solar Water Heating Systems, PDHLibrary 2016, 3 PDH
An Introduction to HVAC Systems, PDHLibrary 2016, 4 PDH
Indiana Laws and Rules for Engineers, PDHLibrary 2016, 1 PDH
Ethics & Social Media, IAAI 2016, 3 PDH
NFPA 1033 and Your Career, IAAI 2015, 2 PDH
Writing the Initial Origin and Cause Report, IAAI 2014, 3 PDH
Investigation of Gas and Electric Appliance Fires, WMU Fire Findings 2014, 25 PDH
Ethics and the Fire Investigator, IAAI 2013, 3 PDH
Tennessee IAAI Annual Training Conference 2012, 30 PDH
Evidence Collection at the Fire Scene 2012
Fire Debris Analysis 2012
East Texas Church Fire Investigation 2012
Digital Photography, 2012
Investigating Fires in Manufactured Homes 2012
Fires in Recreational Vehicles, 2012
Appliance Fire Investigations 2012
A Common Sense Approach to Understanding Electrical Fires 2012
Domestic Violence and Child Abuse, 2012
Investigating Motor Vehicle Fires, IAAI, 2012, 4 PDH
Contract Basics for Design Professionals, XL Group 2012, 1 PDH
Critical Thinking Solves Cases, IAAI, 2011, 4 PDH

Fire and Explosion Investigations: Utilizing NFPA 1033 and 921 IAAI 2011, 4 PDH
Documenting the Event, IAAI, 2011, 4 PDH
Effective Investigation and Testimony, IAAI, 2011, 3 PDH
Deposition and Trial Testimony Training, 2010
Crash Data Retrieval System Technician Certification, Vetronix / Bosch 2010, 8 PDH
The Scientific Method for Fire and Explosion Investigations, IAAI, 2009, 3 PDH
Forklift operator Training 2009
Aerial Lift Operator Training 2009
Arc Mapping Basics, IAAI 2009, 4 PDH
Traffic Accident Reconstruction II Northwestern University Center for Public Safety 2009, 35 PDH
Household Appliance Fire Training, AHAM / IAAI 2008, 20 Credit Hours
Vehicle Fire, Arson & Explosion Investigation Science & Technology Seminar, NFPA / NAFI, 2007
Traffic Accident Investigation Independent Study Program Northwestern University Center for Public Safety, 2005
National Fire, Arson & Explosion Investigation Training Program NAFI / NFPA, 2006
Traffic Accident Reconstruction I, Northwestern University Center for Public Safety, 2005, 73 PDH
Heavy Duty Vehicle Air Brake Systems Training Program Bendix, 2005

Education:

Bachelor of Science, Mechanical Engineering, University of Alabama, Huntsville, AL, 1993
Calhoun Community College, Automotive Technician, 1981 – 1983

Affiliations:

National Fire Protection Association, NFPA I.D. Number 3090565
Current Standing with Automotive Service Excellence, ASE Number 2400-9886
National Association of Fire Investigators (NAFI) No. 11684-5562v

Honors and Awards:

Awarded U.S. Patent No. 5,795,145 - "Method and Apparatus for Controlling Gas Flow to Ceramic Plaque Burners of Differing Sizes," August 1998

Awarded U.S. Patent No. 5,915,952 - "Method and Apparatus for Controlling Gas Flow to Ceramic Plaque Burners of Differing Sizes," June 1999

Student Award for "A Liquid Cryogen Level Meter Design" at the 1993 Cryogenic Engineering Conference in Albuquerque, NM.

*Litigation CV's available on request.