

# **CURRICULUM VITAE OF DAVID ARTHUR REITER, P.E., CFII**

March 2022

## **I. GENERAL INFORMATION**

### **A. POSITION:**

Senior Electrical Engineer – Partner  
Verité Forensic Engineering, LLC.  
10070 Airport Road  
Conroe, TX 77303

## **II. PROFESSIONAL SUMMARY**

### **A. EDUCATION:**

Associate of Applied Science with Honors  
Erie Community College, 1977

Bachelor of Technology Degree in Electrical/Mechanical Engineering  
State University College of New York at Buffalo, 1980

### **B. PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS**

Licensed Professional Engineer, State of Texas  
License No. 79122

Licensed Professional Engineer, State of Florida  
License No. 47000

Licensed Professional Engineer, State of Louisiana  
License No. 25763

Licensed Professional Engineer, State of Oklahoma  
License No. 17472

Licensed Professional Engineer, State of Arizona  
License No. 29968

Licensed Professional Engineer, State of New Mexico  
License No. 13121

Licensed Professional Engineer, State of California  
License No. E 18169

Licensed Professional Engineer, State of New Hampshire  
License No. 12586

Licensed Professional Engineer, State of New York  
License No. 088759-1

Certified Fire Investigator Instructor (CFII) and  
Certified Fire and Explosion Investigator (CFEI) –National Association of  
Fire Investigators, International

Certification – National Council of Examiners for  
Engineering and Surveying (NCEES) - Certification No. 12147

Former Diplomat in Forensic Engineering, Council of Engineering and Scientific  
Specialty Boards (CESB)

Former Certified Fire Investigator, International Association of  
Arson Investigators - C.F.I. #03-004

Former Certified Fire Investigator, Texas Commission on Fire Protection

C. **EXPERIENCE:**

Senior Electrical Engineer-Partner  
Verité Forensic Engineering, LLC.  
July 1998 to Present

Forensic engineering analysis of disaster related incidents/accidents.

Senior Project Engineer-Electrical  
S.E.A., Inc.  
May 1982 to July 1998

Investigations performed include, but are not limited to, electrocution/electric shock  
evaluations, product liability injury and/or property evaluations, commercial/industrial  
electrical equipment failure analysis, illumination/lighting accident evaluations, and  
electrical fire cause determinations.

Design Engineer and Associate Member  
Clark & Waddell Consulting Engineers  
1975 to 1982

Director of the electrical department, responsible for all design and supervision of  
electrical installations for the building construction industry. Systems designed included  
service entrances, low and high voltage distribution and subsystems, lighting, branch  
circuit, communication, security/fire alarm systems and a variety of mechanical  
equipment connections. Duties included drawing preparation, drafting supervision,  
specification writing and field supervision during construction.

Electrician  
South Buffalo Mercy Hospital  
1969 to 1975

Responsible to the Director of Buildings (Registered Professional Engineer) for the  
proper operation and maintenance of the following building systems:

- Primary and secondary distribution Systems
- All emergency generation equipment
- Control systems for various chillers and high pressure boilers
- In-house fire alarm system

- Repair and calibration of selected medical equipment

In addition, was instrumental in the development of the first hospital safety committee in 1970 to begin compliance with OSHA standards. Assisted Director of Buildings in planning and design of various hospital departments such as I.C.U. and C.C.U.

Electrician's Apprentice  
Mercy Hospital  
1967 to 1969

Internship - assisted electricians in the repair and maintenance of hospital electrical equipment and various electrical systems. Also assisted electricians with installation of the electrical systems during construction of new hospital wing.  
Staff Sergeant United States Air Force  
18th Fighter Interceptor Squadron  
1963 to 1967

Weapons Loading Crew Chief. Responsible to department officer, for weapons loading operations on a variety of tactical fighter interceptor aircraft. Duties included the handling of a large number of aircraft weapons; also repair and maintenance of electronic weapons release systems. Honorable Discharge, 1969 after two year reserve duty.

**D. SOCIETY MEMBERSHIPS/COMMITTEES:**

National Association of Fire Investigators (N.A.F.I)  
Former member - National Academy of Forensic Engineers (N.A.F.E.)  
National Society of Professional Engineers (N.S.P.E.)  
International Association of Arson Investigators (I.A.A.I.)

- Texas IAAI Chapter

Institute of Electrical and Electronic Engineers (I.E.E.E.)  
National Fire Protection Association (N.F.P.A.)  
ASTM International

**E. INSTRUCTION OF CONTINUING EDUCATION AND SEMINAR PRESENTATIONS**

Assisted with the instructional presentation of an Elementary Lighting Design course in Buffalo, New York.

Instructed seminar at Western New York Board of Co-operative Educational Services summer workshop in Energy Management Techniques.

Instruction presented in "Electrical Aspects of Fire Investigation"

- Manatee Junior College Fire Science class, 1982
- Sarasota Junior College Fire Science class, 1983
- Florida Chapter, I.A.A.I. Regional Seminar, 1985
- Harris County Fire Marshals, 1992 (approved by the Texas Commission on Fire Protection for continuing education)
- New Mexico I.A.A.I Fire & Arson Investigation Seminar, 1993
- Instructed Electrical portion of Harris County Fire Marshal's Course for "Fire Inspector Certification"
- Houston Arson Division -1995
- Texas I.A.A.I Fire & Arson Investigation Seminar, 1996

- Houston Community College Fire Investigation Class – 1997; 1998 and 1999
- Tomball Community College Fire/Arson Investigation Class – 1999
- Washington I.A.A.I. Fire and Arson Investigation Seminar, 1999
- Fire Investigator Certification Class for Texas Commission on Fire Protection – 2000
- Fire Investigator Certification Class for Texas Commission on Fire Protection – 2001
- Fire Investigator Certification Class for Texas Commission on Fire Protection – 2002
- Advanced Fire Investigation Class for Texas State Fire Marshal’s Office – 2000
- 46<sup>th</sup> Annual Texas Fire and Arson Investigators Conference – Texas A & M University Extension Service – 2001
- U.S. Bureau of Alcohol, Tobacco & Firearms (ATF) – November 2001
- 47<sup>th</sup> Annual Texas Fire and Arson Investigation Conference – Texas A & M University Extension Service – 2002
- 19<sup>th</sup> Annual East Texas Arson Investigators Seminar – Texas A & M University Extension Service – November 2002
- Fire Investigator Certification Class for Texas Commission on Fire Protection – 2003
- ATF – CFI Recertification Class – Emmitsburg, MD. – Instructor – 2014
- “Introduction to Arc Mapping” class presented at the Forensic Fire Death Investigations class at Sam Houston State University in conjunction with Eastern Kentucky University – September 2016

Presented seminars on “Lightning and Electrical Losses” at the Property Loss Managers Conferences in:

- Chicago, Illinois - 1991
- Atlanta, Georgia - 1992
- San Antonio, Texas - 1993
- New York, New York - 1994

Presented seminars on “Criteria for Successful Subrogation” at Property Loss Managers Conference in:

- Anaheim, CA - 1996
- Atlanta, GA - 1997
- Chicago, IL - 1998

Presented seminar on “Forensic Fire Investigation” at Property Loss Managers Conference in:

- Chicago, IL – 2000
- Atlanta, GA – 2001

Conducted numerous seminars on “Electrical Fire Investigation and Subrogation” for insurance claims groups. (Course approved by the Texas State Board of Insurance for continuing education credit.)

Presented the “Arc Mapping” portion of classroom instruction at Sam Houston State University which hosted the “Forensic Fire Death Investigations class – Sep. 2016, 2017 and 2018 and proctored the instructional burn scene investigations.

**F. CONTINUING EDUCATION AND SEMINARS ATTENDED:**

Fire and Arson Investigation School, June 1985, presented by the Florida Chapter, I.A.A.I.

Fire and Arson Investigation School, January 1987, presented by the Florida Chapter, I.A.A.I. and PARCO.

“Elements of Railway Signaling and Control Systems”, May 1988, at  
George Washington University, Washington, D.C.

Advanced Fire and Arson Investigation School, September 1992, presented by the  
New Mexico Chapter, I.A.A.I.

Advanced Fire and Arson investigation Seminar, September 1993 presented by the  
New Mexico Chapter, I.A.A.I.

I.A.A.I. Regional Training Seminar, “Fire Investigation Theory Applied to Live Burn  
Situations”, Galveston, Texas, January 1994.

Current Arson Investigation Seminar, Presented by Texas Chapter of I.A.A.I., October  
1996

Applications of Power Circuit Breakers – 1997

Transient Voltage Surge Suppression – 1997

“Professionalism in Fire Investigation” Seminar, September 1999, Presented by  
Washington State I.A.A.I. (32 hours)

Fire Investigator’s Certification Class – Texas Commission on Fire Protection  
(122 Hours) – August 2000

47<sup>th</sup> Annual Texas Fire and Arson investigators Conference – Texas A & M University  
Extension Service – (32 Hours) – March 2002

Vehicle Fire Investigation – presented by I.A.A.I – Cody, WY (20 Hours) –  
September 2002

Thermodynamics Review – Video course presented by Auburn University –  
October 2002

OSHA Electrical Regulations for Construction – March 2004

I.A.A.I Fire Investigation Technologies Seminar – St. Louis, MO (one week course) –  
April 2004

International Fire Symposium – Moreton-in-Marsh, U.K. – June 2004

Fire & Materials Conference – San Francisco, CA - January 31 and February 1, 2005

Feel the Heat – Fire Seminar – Armstrong Forensic Laboratory, Inc. Arlington, TX –  
April 7, 2006

Principles of Electrical Fires 102 – Austin, TX - December 2006

2005 NEC: Wiring Methods – January 2007

Research into the Causes of Fire Conference – Poznan, Poland – November 2007

Fire & Materials Conference – San Francisco, CA – January 2009

DRI Conference – Fire and Casualty Seminar – Chicago, IL November 2010

Fire and Explosion Investigations (NFPA 921) – NFPA Course February 2011

Applied Fire Dynamics for Fire Investigators – Killeen, TX – December 2012

Fire and Materials Conference – San Francisco, CA – January 2013

Complex Arson Investigation Techniques – Brunswick, GA – Sep. 29 to Oct. 4, 2013

Collin County Fire & Arson Investigation Association – Forensic Fire Death Investigations – September 2015

National Fire Investigation Training Program (to include Certified Fire Investigation Instructor) – National Association of Fire Investigators – March 2017

NFPA 70E “Standard For Electrical Safety in the Workplace” – 2 day class provided by AVO Training – Nov. 14/15 2019

NFPA 70E “Electrical Safety 2021” – 2 day class provided by AVO Training – Sep 27/28, 2021

IAAI Motor Vehicle Fire Investigation – 24 hour – Tested. Presented by IAAI – Livingston, TX – February 2022

**G. COURT QUALIFIED:**

Qualified as an expert witness on numerous occasions in both state and federal courts.

Served as a Special Master for the 442<sup>nd</sup> District Court of Denton County, TX

**H. PUBLISHED ARTICLES:**

“Fires in Packaged Heating and Air Conditioning Units,” Fire and Arson Investigator, 1989.

“Lightning and Electrical Losses,” Property Loss Research Bureau, 1994.

“Ramifications of Overfusing,” Fire and Arson Investigator, 1994.

“Arc Surveys as a Means to Determine Fire Origin in Residential Structures”, presented at the International Fire Symposium, Moreton-in-Marsh, U.K., 2004

“Full Scale Arc Mapping Tests” published in the “Proceedings of the Fire & Materials 2005 Conference”, by Interscience Communications, London, UK. – presented at the Conference proceedings in San Francisco, CA, 2005

“Full Scale Arc Mapping Tests” reprinted in the “Research into Fire Causes” 2<sup>nd</sup> International Conference, Poznan, Poland, September 2005

“Unique Aspects of Vehicle Fire Investigations” – Published in the proceedings of the “Research into the Causes of Fire” conference, by Fire Service College, Poznan, Poland

“Unique Aspects of Vehicle Fire Investigations” – Published in the conference proceedings of Fire & Materials 11th International Conference and Exhibition in San Francisco, CA January 2009.

“Method to Characterize Damage to Conductors from Fire Scenes” – Published in the conference proceedings of the Fire & Materials 13<sup>th</sup> International Conference and Exhibition in San Francisco, CA, January 2013