

CURRICULUM VITAE OF PAUL L. CARPER, P.E.

March 2017

I. GENERAL INFORMATION

Senior Mechanical Engineer – Partner
Verité Forensic Engineering, LLC.
10070 Airport Road
Conroe, Texas 77303

Mechanical engineering consultant with experience in local, national and international matters. Testimony provided in numerous state and federal courts.

II. PROFESSIONAL SUMMARY

A. EDUCATION:

Bachelor of Science in Mechanical Engineering, May 1983
Texas A&M University
College Station, Texas

B. PROFESSIONAL REGISTRATION – CERTIFICATIONS:

Licensed Professional Engineer, State of Texas

Licensed Professional Engineer, State of Arkansas

Licensed Professional Engineer, State of Colorado

Licensed Professional Engineer, State of Oklahoma

Licensed Professional Engineer, State of Louisiana

Licensed Professional Engineer, State of Mississippi

Licensed Professional Engineer, State of New Mexico

Certification – National Council of Examiners for Engineering and Surveying (NCEES) – Certification No. 45639.

CFEI- Certified Fire and Explosion Investigator- NAFI, active
CFII- Certified Fire Investigator Instructor- NAFI, active

C. EXPERIENCE:

Senior Mechanical Engineer – Partner
Verité Forensic Engineering, LLC.
Conroe, Texas
August 1998 to present

Forensic engineering analysis of disaster related incidents/accidents, including mechanical aspects of fire investigation, fuel gas system and appliance analysis and testing, vehicle accident reconstruction and failure analysis of general mechanical systems.

Senior Mechanical Engineer
S.E.A., Inc.
Houston, Texas
December 1993 to July 1998

Senior mechanical engineer responsible for forensic engineering projects including vehicular accident reconstruction and failure analysis of mechanical systems. Vehicular accident investigations involved automobiles, pedestrians, bicycles, motorcycles and tractor-trailers.

Senior Engineer
Lockheed Engineering and Sciences Company
Houston, Texas
June 1991 to October 1993

Project engineer responsible for design, manufacture, destructive/nondestructive material testing, and failure analysis of components at the NASA – Johnson Space Center facility. Managed radiography laboratory and machine shop.

Materials and Processes Engineer – Structures and Design
Lockheed/Fort Worth (formerly General Dynamics/FW)
Fort Worth, Texas
November 1985 to January 1991

Responsible for developing and implementing hardware and procedures for the testing and production of advanced aerospace materials. Held secret security clearance.

Applications Engineer
ITL/Veritas Technologies
Houston, Texas 77084
March 1984 to June 1985

Operated test equipment in field assignments involving pipeline and vessel testing to applicable codes. Conducted laboratory tests of engineering materials.

D. TRAINING – SEMINARS:

Certified Fire Investigation Instructor - Richmond, KY- March 17, 2017.

National Fire Investigation Training Program - Richmond, KY- March 13-16, 2017.

Complex Arson Investigation Techniques – Brunswick, GA – September 29 to October 4, 2013

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

Fire and Explosion Investigations (NFPA 921) – NFPA Course, Houston, Texas, February 2011.

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

2008 CDR User’s Group Conference – addressed new developments in downloading and analyzing vehicle airbag computer data; Houston, Texas, January 2008

“Feel the Heat” Fire Seminar, presented by Armstrong Forensic Laboratory, Arlington, Texas, April 2006

ARC-CSI Crash Conference – addressed accident reconstruction technologies; participated in staged vehicle crash tests and data analysis, Las Vegas, Nevada, June 2005

Crash Data Retrieval System Training Course – Houston, Texas, June 2004, 24 hours. Received CDR System Operator certification.

Vehicle Fire Investigation – presented by I.A.A.I – Cody, Wyoming, September 2002, 20 hours.

Driving Schools – Included high performance car and motorcycle

instruction on closed race courses, with emphasis on vehicle control concepts. August 1997 and June 1998.

Commercial Vehicle Inspection and Accident Investigation – Texas Engineering Extension Service, March 1997, 40 hours.

Motorcycle Accident Investigation – Institute of Police Technology and Management, December 1996, 40 hours.

Advanced Accident Reconstruction – Texas Engineering Extension Service, April 1995, 40 hours.

Nondestructive Testing:

Radiography/Radiation Safety – General Dynamics, Fort Worth, Texas, 1988, 40 hours.

Ultrasonic Testing – Level I and II, Westinghouse Technical Institute, Pittsburgh, Pennsylvania, 1984, 80 hours. Level II Certification in UT and PT methods.

American Society of Nondestructive Testing – Level III Certification in Basic, Ultrasonic, and Radiography test methods 1992-2002.

E. TEACHING – INSTRUCTION:

U.S. Department of Justice, ATF Recertification Class- faculty member, Emmitsburg, MD.- July 2014.

State Bar of Texas, Professional Development Program. Advanced Expert Witness Course 2001, faculty member on topic – *The Auto Accident Reconstruction Expert*.

U.S. Bureau of Alcohol, Tobacco & Firearms (ATF), Mechanical Aspects of Fire Investigation, November 2001.

Texas State Fire Marshal's Training School, 2000. Instructor on natural gas and propane systems at advanced fire investigation class.

Houston Community College and Tomball Community College. Instructor on gas systems and the investigation of gas appliance fires, 1999 and 2000.

Various presentations given on Accident Reconstruction to claims groups and related organizations, 1996 – on.

F. PUBLICATIONS:

Tractor-Trailer Accidents – Eugene Beckham and Paul L. Carper, For The Defense (periodical), Defense Research Institute, Inc., March 2001.

Development of Fracture Control Methodology for Threaded Fasteners in the Space Program – Julie A. Henkener, Attibele R. Shamala, Paul L. Carper, Royce G. Forman, Charles L. Salkowski, ASTM Publication 1236/Structural Integrity of Fasteners.

G. TECHNICAL COMMITTEES – PROFESSIONAL SOCIETIES:

Member, *Technical Committee for Excellence*, Houston Fire Department, January 2001 – present.

Member National Association of Fire Investigators

H. MISCELLANEOUS

Instrument and Multi Engine Rated Private Pilot, Remote Pilot- Small Unmanned Aircraft Systems (Commercial Drone), Federal Aviation Administration