

**Professional Resume of
THOMAS P. SCHAEFER, P.E.**

April 2019

I. General Information

Mechanical Engineer
Crash Physics, LLC
Wentzville, Missouri

II. Professional Summary

A. Education: Bachelor of Science - 1983
Mechanical Engineering
University of Missouri - Rolla
Rolla, Missouri

B. Experience:

February 2017 to Present
Position: Mechanical Engineer
Crash Physics, LLC

July 2002 to February 2017
Position: President / Mechanical Engineer
Schaefer Engineering, Inc.
Wentzville, Missouri

October 1990 to July 2002
Position: Senior Project Engineer - Mechanical
FTI/S.E.A. Consulting
St. Louis, Missouri

Mechanical engineering projects with emphasis in vehicular accident reconstruction, product failure analysis and mechanical design analysis.

August 1983 to October 1990
Position: Applications Engineering Manager
Ferguson Company
St. Louis, Missouri

Major emphasis in the design and application of high speed factory automation equipment and the analysis of vibration problems related to machine dynamics.

III. Professional Registration

Registered Professional Engineer in the States of Missouri (1990), Illinois, Arkansas, Mississippi, Kentucky, Tennessee, Kansas, Iowa and Nebraska (T-598)

IV. Professional Affiliations

Society of Automotive Engineers (SAE)
American Society of Mechanical Engineers (ASME)
Nation Fire Protection Association (NFPA)

V. Publications

Muttart, et al., (2017). *Influence of Taillight Width on the Ability to Recognize Closing Speed, Closing Distance, and Closing versus Separating*. Human Factors and Ergonomics Society, HFES2017-000703.

VII. Continuing Education

1991 - Advanced Vehicle Systems - Anti-Lock Brakes/Air Bags, I-CAR, Columbia, MO
1992 - Commercial Vehicle Accident Investigation and Reconstruction, Arkansas State University, Jonesboro, AR
1994 - Automobile Vehicle Dynamics, SAE, Detroit, MI
1994 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
1995 - Heavy Truck Skid Testing & Seminar, SAE, East Liberty, OH
1995 - Sensor Design for Automobile Air Bag Systems, SAE, Detroit, MI
1995 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
1995 - Crash Tests & Trajectory Analysis, SAE, East Liberty, OH
1996 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
1997 - High Speed Rear Impact Crash Test TOPTEC, SAE, Phoenix, AZ
1997 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
1998 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
1999 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
2000 - World Reconstruction Exposition, College Station, TX
2000 - Truck Driving School (obtained CDL - Class A with all endorsements), Franklin College, St. Louis, MO
2000 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
2001 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
2002 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
2003 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
2003 - Commercial Vehicle Brake Systems, SAE, Troy, MI
2004 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
2004 - Heavy Truck Brake Tests – HTTG, TRC-East Liberty, OH
2004 - Vehicle Accident Reconstruction Methods, SAE, Troy, MI

Continuing Education – Continued

- 2005 - Legal Issues for Missouri Professional Engineers. Half Moon, LLC – St. Louis, MO.
- 2006 - Caterpillar Electronic Engine Data Extraction – Finning Power Systems, Vancouver, BC
- 2006 - Commercial Vehicle Brake Safety Symposium – Commercial Vehicle Safety Alliance, Indianapolis, IN.
- 2007 - Crash Data Retrieval System Technician Certification Course
Vetronix & Collision Safety Institute. Stillwater, OK.
- 2007 - Crash Data Retrieval System Data Analyst Certification Course.
Vetronix & Collision Safety Institute. Stillwater, OK
- 2007 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
- 2007 - Highway Vehicle Event Data Recorder Symposium: 2007 Update.
SAE – Ashburn, Virginia.
- 2008 – Basic/Advanced Diagramming and Animation with intro to Total Stations and M-FX.
Visual Statement, Loveland, CO.
- 2008 - SAE Congress, Technical Session – Accident Reconstruction, Detroit, MI.
- 2009 - SAE Congress, Technical Session – Accident Reconstruction/EDR, Detroit, MI.
- 2010 – Missouri Trucking Association Safety Conference, Lake Ozark, MO.
- 2010 – SAE Congress, Technical Session – Accident Reconstruction/EDR, Detroit, MI.
- 2010 – Arkansas Trucking Seminar, Fayetteville, AR.
- 2010 – How to Interpret Commercial Vehicle Event Data Recorders, The University of Tulsa,
Tulsa, OK.
- 2011 – Advanced Crash Reconstruction Utilizing Human Factors Research, Northwestern
University Center for Public Safety, Evanston, IL.
- 2011 – SAE Congress, Technical Session – Accident Reconstruction/EDR, Detroit, MI.
- 2012 - Crash Data Retrieval User’s Summit, Collision Safety Institute & Collision Publishing,
Houston, TX.
- 2012 – SAE Congress, Technical Session – Accident Reconstruction/EDR, Detroit, MI.
- 2013 – SAE Congress, Technical Session – Accident Reconstruction/EDR, Detroit, MI.
- 2013 – ARC-CSI Crash Conference, Las Vegas, NV.
- 2014 – SAE Congress, Technical Sessions – Accident Reconstruction/EDR, Detroit, MI.
- 2015 – SAE Congress, Technical Sessions – Accident Reconstruction, Detroit, MI.
- 2015 – Reconstruction and Analysis of Motorcycle Crashes, SAE, Detroit, MI.
- 2015 – Accessing and Interpreting Heavy Vehicle Event Data Recorders, SAE, Charlotte, NC.
- 2016 – IDRR & V.Star User Forum, Crash Safety Solutions, San Diego, CA.
- 2018 – Reconstruction and Analysis of Rollover Crashes of Light Vehicles. SAE, Detroit MI.
- 2018 - SAE Congress, Technical Sessions – Accident Reconstruction/EDR, Detroit, MI
- 2019 – IDRR User Forum, Crash Safety Solutions, St. Pete Beach, FL