

St. Louis

154 Hughes Lane St. Charles, MO 63301

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#### CURRICULUM VITAE OF FRED B. SEMKE, P.E.

May 2024

## I. General Information

A. Position President

Semke Forensic 154 Hughes Lane St. Charles, Missouri Telephone: 636-896-9995

## II. <u>Professional Summary</u>

A. Education: Master of Science

Engineering Mechanics University of Missouri

Rolla, Missouri

1986

Bachelor of Science - Magna Cum Laude

Mechanical Engineering University of Missouri University Scholar Columbia, Missouri

1983

St. Charles R-5 High School

St. Charles, Missouri

Valedictorian

1978

Professional Resume
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Fred B. Semke

### B. Experience:

October 2023 to Present Position: President

Semke Forensic 154 Hughes Lane St. Charles, Missouri

Responsible for mechanical engineering projects with emphasis in vehicular accident reconstruction, failure analysis, mechanical design analysis, fire suppression systems and fuel-fired equipment.

January 2003 to October 2023

Position: Principal Engineer

Semke Forensic 154 Hughes Lane St. Charles, Missouri

Responsible for mechanical engineering projects with emphasis in vehicular accident reconstruction, failure analysis, mechanical design analysis, fire suppression systems and fuel-fired equipment.

March 1997 to January 2003

Position: Senior Project Engineer - Mechanical

FTI/S.E.A. Consulting St. Louis, Missouri

Responsible for mechanical engineering projects with emphasis in vehicular accident reconstruction, failure analysis, mechanical design analysis, fire suppression systems and fuel-fired equipment.

May 1983 to March 1997

Position: Mechanical Engineer

McDonnell Douglas Corporation

St. Louis, Missouri

Responsible for aircraft design and analysis.



Professional Resume Fred B. Semke

C. Hold a Class A Commercial Vehicle Driver's License (CDL) with all endorsements.

#### III. Seminars and Technical Courses Attended

- 1984 Strength and Mass Properties
- 1985 Ethical Decision Making Workshop
- 1986 Hazardous Materials Communication
- 1987 Effective Writing
- 1987 Structural Analysis Laminated Composites
- 1987 Metal Matrix Composites
- 1988 Respirator Training
- 1988 Fatigue/Fracture Mechanics
- 1993 Time Management
- 1998 SAE Technical Session, Accident Reconstruction
- 1999 SAE Technical Session, Accident Reconstruction
- 1999 SAE Seminar, Braking Performance of Heavy Commercial Vehicles
- 2000 World Reconstruction Exposition
- 2001 SAE Technical Session, Accident Reconstruction
- 2002 SAE Technical Session, Accident Reconstruction
- 2002 MTC Truck Driver Training Course
- 2003 SAE Technical Session, Accident Reconstruction
- 2004 SAE Technical Session, Accident Reconstruction
- 2005 SAE Seminar Vehicle Accident Reconstruction Methods
- 2006 Crash Data Retrieval (CDR) Technician Certification Course
- 2006 Crash Data Retrieval (CDR) Data Analyst Certification Course
- 2007 SAE Technical Session, Accident Reconstruction
- 2008 Crash Data Retrieval User's Conference
- 2008 SAE Seminar Applied Vehicle Dynamics
- 2008 BMW Performance Driving School SAE Driving Event
- 2009 SAE Technical Session, Accident Reconstruction / EDR's
- 2009 Midwest Association of Technical Accident Investigators (MATAI) Seminar
- 2009 Bendix Air Brake Class
- 2009 Heavy Vehicle Crash Reconstruction Conference
- 2010 Commercial Vehicle Event Data Recorders (University of Tulsa)
- 2010 SAE Technical Session, Accident Reconstruction / EDR's
- 2010 J. J. Keller, Forklifts: FAQs on OSHA's Standard
- 2010 Accessing and Interpreting Heavy Vehicle Event Data Recorders (SAE)
- 2011 SAE Highway Vehicle Event Data Recorder Symposium
- 2012 SAE Technical Session, Accident Reconstruction / EDR's
- 2013 Advanced Crash Reconstruction Utilizing Human Factors (NUCPS)
- 2013 Midwest Association of Technical Accident Investigators (MATAI) Seminar
- 2014 Midwest Association of Technical Accident Investigators (MATAI) Seminar
- 2015 Digital Forensics of Heavy Vehicle Event Data Recorders (Univ. of Tulsa)
- 2016 World Reconstruction Exposition



Professional Resume Fred B. Semke

### IV. <u>Professional Affiliations</u>

Society of Automotive Engineers (SAE)

Society of Accident Reconstructionists (SOAR)

National Assoc of Professional Accident Reconstruction Specialists (NAPARS)

Midwest Association of Technical Accident Investigators (MATAI)

European Association for Accident Research and Analysis (EVU)

American Society of Mechanical Engineers (ASME)

American Society of Agricultural and Biological Engineers (ASABE)

National Fire Protection Association (NFPA)

American Society of Heating, Refrigerating and Air-Conditioning Engr (ASHRAE)

### V. Professional Registration

Registered Professional Engineer in the States of Missouri, Illinois, Arkansas, Kentucky, Kansas, Oklahoma, Iowa, Alabama, and Idaho

# VI. <u>Civic Involvement</u>

President, Board of Education, St. Charles R-5 Schools, January 1997 to April 2015