

**CURRICULUM VITAE OF JEFFREY W. POLSTER, P.E.**

April 2024

**I. General Information**

A. Position: Senior Mechanical Engineer  
Semke Forensic  
154 Hughes Lane  
St. Charles, Missouri  
Telephone: 636-896-9995

**II. Professional Summary**

A. Education: Bachelor of Science – Magna Cum Laude  
Mechanical Engineering  
University of Missouri  
St. Louis, Missouri  
2006

Certificate of Specialization  
Computer-Aided Design and Drafting  
St. Louis Community College  
Florissant, Missouri  
2000

Machine Shop I and II  
North County Technical School  
Florissant, Missouri  
1986

Hazelwood Central High School  
St. Louis County, Missouri  
1984

B. Experience:

January 2012 to Present

Position: Senior Mechanical Engineer  
Semke Forensic  
St. Charles, Missouri

Responsible for mechanical engineering investigations including vehicular accident reconstruction, mechanical failure analysis, and fire causation.

September 2006 to January 2012

Position: Mechanical Engineer  
Semke Forensic  
St. Charles, Missouri

Responsible for mechanical engineering investigations including vehicular accident reconstruction, mechanical failure analysis, and fire causation.

January 2002 to September 2006

Position: Mechanical Designer/Machinist  
Universal Packaging Corporation  
Kirkwood, Missouri

Responsible for the design, construction and maintenance of production machinery and tooling. Also responsible for the acquisition of materials and tools for the machine shop, plant safety and OSHA compliance, the design, construction, and maintenance of production lines and administration of the company's computer network.

July 1999 to December 2001

Position: Mechanical Designer/Drafter  
The Starrco Company  
Maryland Heights, Missouri

Responsible for modular office design projects including building layout, building code compliance, HVAC systems and load-bearing structural components. Also responsible for customer technical support and new component development.

October 1997 to April 1999

Position: All-Around Machinist  
The Boeing Company  
St. Louis, Missouri

Responsible for machining commercial and military aircraft tooling using manual and CNC equipment, including part inspection and process verification for ISO 9000 compliance.

January 1996 to October 1997

Position: Machinist  
Universal Packaging Corporation  
Kirkwood, Missouri

Responsible for machining parts and tooling using manual equipment, and the maintenance, modification, and repair of production machinery.

November 1993 to January 1996

Position: General Machinist  
McDonnell Douglas Corporation  
St. Louis, Missouri

Responsible for machining parts and tooling using manual and CNC equipment.

April 1992 to November 1993

Position: CNC Machinist  
Van Os Machine Works  
Overland, Missouri

Responsible for machining parts and tooling using manual and CNC equipment.

October 1987 to October 1991

Position: General Machinist  
McDonnell Douglas Corporation  
St. Louis, Missouri

Responsible for machining parts and tooling using manual and CNC equipment.

June 1985 to October 1987

Position: Machinist/Utility Worker  
Allied Gear  
Overland, Missouri

Responsible for shipping container construction and machining parts using manual equipment.

### **III. Seminars and Technical Courses Attended**

- 1988 - Ethical Decision Making Seminar
- 1989 - CNC Programming Course
- 1990 - Geometric Dimensioning and Tolerancing - ANSI Y14.5 Course
- 1991 - Statistical Process Control, Concepts Course
- 1992 - Forklift Operation and Safety Course
- 1993 - Statistical Process Control, Advanced Course
- 1995 - Statistical Process Control, Data Entry Software Course
- 1995 - ISO 9000 Implementation Course
- 1998 - High Performance Work Organization Course
- 1998 - ISO 9000 Compliance Course
- 1999 - ISO 9000 Operator Verification Course
- 2007 - Gas/Oil Service & Appliance Fire Investigation Course
- 2007 - Commercial Vehicle Braking Systems - SAE
- 2007 - IAAI - Illinois Chapter Fire Investigation Conference
- 2008 - PC-Crash Accident Reconstruction Software Course
- 2009 - Human Factors in Traffic Accident Reconstruction Course
- 2009 - Crash Data Retrieval Technician Course
- 2009 - Crash Data Retrieval Data Analyst Course
- 2010 - Crash Data Retrieval Users Summit
- 2010 - Motorcycle Crash Investigation - IATAI Course
- 2010 - Heavy Truck Electronic Control Module Data Use - IATAI Course
- 2010 - Heavy Vehicle Event Data Recorders - SAE Course
- 2011 - SAE World Congress Seminar

2011 - Biomechanics of Injury Causation Seminar  
2011 - GPS in Accident Reconstruction Seminar  
2011 - Valve Fundamentals Course  
2012 - Crash Data Retrieval Users Summit  
2012 - Investigation of Gas and Electric Appliance Fires Course  
2013 - Crash Data Retrieval Users Summit  
2013 - Fire Investigation & Low-Speed Collisions - MAACA/IASIU  
2014 - Crash Data Retrieval Users Summit  
2014 - Accident Evaluations and Resources & Injury Causation, - MAACA/IASIU  
2014 - Machine Safety and Product Liability Seminar - NASP  
2015 - Crash Data Retrieval Users Summit  
2015 - Vehicle Fire, Arson & Explosion Investigation - NAFI  
2016 - Crash Data Retrieval Users Summit  
2017 - Event Data Recorder User's Summit  
2018 - Event Data Recorder User's Summit  
2019 - Event Data Recorder User's Summit  
2021 - Tire, Brake, and Suspension/Steering Failures Courses  
2021 - Rollover Analysis Course  
2021 - Bumper Damage Analysis Course  
2021 - Skid to Rest and Skid Mark Analysis Course  
2021 - Diesel Engine Fundamentals Course  
2023 - Guide to Electric Vehicles Course  
2023 - Forensic Engineering Course, Parts 1-5  
2023 - Human Factors in Forensic Analysis of Accidents Course  
2023 - Drone Technology Course  
2023 - Forensic Lighting Analysis Course  
2023 - Expert Witness Testimony Course  
2023 - GPS: Theory, Practice, and Applications Course  
2024 - Event Data Recorder User's Summit

**IV. Professional Affiliations**

American Society of Mechanical Engineers (ASME)  
Society of Automotive Engineers (SAE)

**V. Professional Registration**

Registered Professional Engineer in the State of Missouri