

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

November 2021

**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:

September 2006 to Present

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

**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.