

**Professional Resume
of
WILLIAM W. TRUSS, P.E.**

January 2023

I. General Information

Project Engineer – Electrical
Schaefer Engineering, Inc.
Wentzville, Missouri

II. Professional Summary

A. Education: Bachelor of Science
Electrical Engineering
University of Missouri - Columbia
Columbia, Missouri
May 1987

Bachelor of Science
Computer Engineering
University of Missouri - Columbia
Columbia, Missouri
May 1987

B. Experience:

April 2004 to present
Position: Project Engineer – Electrical
Schaefer Engineering, Inc.
Wentzville, Missouri

Responsible for electrical engineering projects including failure analysis of electrical components and systems of structures and vehicles, analysis of electrical equipment and appliances to determine their role in an incident, evaluation of electrical shock and electrocution incidents and electrical equipment evaluation involving lightning or water damage.

Experience (continued):

April 2002 through March 2004

Position: Engineer/Scientist Level 4 – System Integration Test
The Boeing Company
St. Louis, Missouri

Responsible for developing and executing integrated system tests on combat aircraft avionics. Responsibilities also included program management and workload coordination for a team of engineers, interfacing with both internal and external customers to provide quality products and services.

November 1994 through March 2002

Position: Project Engineer – Systems Evaluation
Allen Bradley/Rockwell Automation
Mequon, Wisconsin

Responsible for evaluating industrial automation control products and systems prior to product release. Specific duties included developing and executing system tests, generating reports, and interfacing with customers and field support personnel for troubleshooting and failure analysis.

June 1987 through November 1994

Position: Senior Engineer – Integration Test and Evaluation
McDonnell Douglas Aerospace Co.
St. Louis, Missouri

Responsible for integrating weapon launch hardware and software with combat aircraft avionics. Another position included testing interfaces between cruise missiles and launch platform weapons control systems aboard Navy ships, submarines, and government laboratories as well as developing cruise missile operational flight software.

May 1986 through January 1987

Position: Co-op Electrical Engineer – Nuclear Division
Union Electric Company
St. Louis, Missouri

Worked with both the electrical design and the computerized monitoring systems of the Callaway nuclear power plant. Verified configuration status of controlled plant documents.

III. Professional Registration

Registered Professional Engineer in the States of Missouri (2005), Illinois, Kansas and Arkansas.

Certified Fire and Explosion Investigator (NAFI-CFEI), National Association of Fire Investigators Certification Board.

Certified Vehicle Fire Investigator (NAFI-CVFI), National Association of Fire Investigators Certification Board.

IV. Continuing Education

1987 – Intro to Software Development in Ada, McDonnell Douglas
1988 – Alsys Lessons on Ada, McDonnell Douglas
1990 – Procurement Integrity-General, McDonnell Douglas
1991 – Total Quality Management Awareness Training, McDonnell Douglas
1991 – Memory Improvement, McDonnell Douglas
1992 – Strategic Quality Planning, McDonnell Douglas
1993 – Hazard Communication, McDonnell Douglas
1993 – Electrical Safety and Lockout, McDonnell Douglas
1993 – Static Sensitive Devices Orientation, McDonnell Douglas
1993 – F/A-18 Avionics Systems, McDonnell Douglas
1994 – Integrated Product Development Familiarization, McDonnell Douglas
1995 – Electrical Machinery and Control, Milwaukee School of Engineering
1995 – Rockwell Software Ladder Logic Programming, Rockwell Automation
1996 – Motor Drive Theory, Rockwell Automation
1996 – Electrical Safety, Rockwell Automation
1997 – DeviceNet Training, Rockwell Automation
1998 – Electro Static Discharge Training, Rockwell Automation
1999 – ControlNet Training, Rockwell Automation
1999 – Advanced Motion Control and MotionLogix, Rockwell Automation
2000 – Project Management, Chicago, IL
2001 – Lockout/Tag-out Safety Course, Rockwell Automation
2001 – Fire Extinguisher Training, Rockwell Automation
2002 – Electro Static Discharge Awareness, Boeing
2002 – Ethics at Boeing, Commitment, Responsibilities, Boeing
2002 – Avionics Fiber Optics Usage, Boeing
2002 – Export Control Level 3 – Part 1, Boeing
2003 – Program Management, Boeing
2003 – Perception Power and Leadership Essentials, Boeing
2003 – Introduction to Air-to-Air Combat, Boeing
2003 – A View from the Cockpit, Boeing
2004 – Investigation of Electrical Appliance Related Fires, IAAI /AHAM
2005 – Annual Conference/Fire Investigation Training, Illinois Chapter IAAI
2005 – Investigation of Gas and Electrical Appliance Fires, Fire Findings
2005 – Legal Issues for Missouri Professional Engineers
2007 – Advanced Insurance Fraud Seminar
2007 – Advanced Electrical Overcurrent Protection
2007 – 2008 National Electric Code Training

Continuing Education (continued)

2008 – Investigation of Residential Dryer Fires, Fire Findings
2009 – Understanding Post-Flashover Fire Behavior, Arkansas Chapter IAAI
2010 – NFPA 70E: Standard for Electrical Safety in the Workplace
2011 – National Association of Subrogation Professionals Kansas/Missouri Chapter Seminar
2011 – NASP Annual Conference, Fan Motor Subrogation
2012 - National Fire, Arson & Explosion Investigation Training Program, NAFI
2012 – Origin and Cause Basic Training – Fairview Heights, Illinois
2013 – Personal Productivity and Customer Relationship Management, T&T Training
2013 – Asbestos Awareness Training – ClickSafety Online
2013 – Asbestos Operations and Maintenance Training – Environmental Safety Training Center
2014 – National Association of Subrogation Professionals Kansas/Missouri Chapter Seminar
2014 – Asbestos Operations and Maintenance Refresher – Environmental Safety Training Center
2015 – Annual Conference/Fire Investigation Training, Illinois Chapter IAAI
2015 – IAAI Annual International Conference – Chicago, Illinois
2015 – Origin & Cause, Subrogation Training with Burn Cell Demonstration – Warrensburg, MO
2015 – Asbestos Operations and Maintenance Refresher – Environmental Safety Training Center
2017 – Asbestos Operations and Maintenance Refresher – Environmental Safety Training Center
2017 – Investigating Natural Gas Systems – CFI Trainer
2017 – Hands-On Vehicle Fire/Arson Investigation – Public Agency Training Council
2018 – Asbestos Operations and Maintenance Refresher – Environmental Safety Training Center
2018 – Arkansas Chapter IAAI – Fatality Fires and Scene Investigation Safety
2019 – Northern Zone IL-IAAI – Large Commercial Structure Fires and Criminal/Civil Aspects
2019 – Asbestos Operations and Maintenance Refresher – The Asbestos Institute
2020 – Asbestos Operations and Maintenance Refresher – The Asbestos Institute
2020 – MagneTek: A Case Study In The Daubert Challenge – CFI Trainer
2021 – Asbestos Operations and Maintenance Refresher – BlueSky
2021 – Identifying Potential Ignition Sources – Southern Zone IL-IAAI
2021 – Writing Your Investigative Report – Southern Zone IL-IAAI
2021 – Indoor Marijuana Grow and Butane Hash Oil Fires – Southern Zone IL-IAAI
2021 – Identifying and Addressing Serial Arson – Southern Zone IL-IAAI
2022 – Asbestos Operations and Maintenance Refresher Training – BlueSky
2022 – Fire Investigator Scene Safety – CFI Trainer
2022 – Electric & Hybrid Vehicle Fires – CFI Trainer
2022 – Lithium-Ion Battery Fires – CFI Trainer
2022 – Digital Photography and the Fire Investigator – CFI Trainer

V. Professional Affiliations

International Association of Arson Investigators (IAAI)
Institute of Electrical and Electronics Engineers (IEEE)
National Fire Protection Association (NFPA)
National Association of Fire Investigators (NAFI)

VI. Courses Taught

Investigating Electrical Fires – May 2009, Annual Fire Investigation Seminar of the Arkansas Chapter IAAI

Investigating Electrical Fires – June 2009, Annual Fire Investigation Seminar of the Illinois Chapter IAAI

Electrical Fire Investigations – November 2009, Chicago Fire Department, Office of Fire Investigations, In-Service Training

Electrical Blanket and Heating Pad Fires – November 2011, Annual Conference, National Association of Subrogation Professionals

Origin and Cause Basic Training – October 2012, Fairview Heights, Illinois

Electrical Dryer Fires, Proving the Cause – April 2014, Midwest Fire Consulting Group, Fairview Heights, Illinois

Electrical Appliance Fires, Proving the Cause – May 2014, Kansas/Missouri Chapter Meeting, National Association of Subrogation Professionals, Columbia, Missouri

Proving the Cause: Beyond the Basics – March 2015, Annual Fire Investigation Training Conference of the Central Illinois Fire Investigator Association, East Peoria, Illinois