

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

June 2019

**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

**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

**Courses Taught (continued)**

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