

## **EDUCATION**

1993 **Bachelor of Engineering, Mechanical Engineering**  
University of Missouri-Columbia

## **EXPERIENCE**

October 2006 **Engineering Design & Testing Corp.**  
to Present **Overland Park, Kansas**

*Consulting Engineer*

Analysis of mechanical equipment design, equipment specification and material selection; investigation and analysis of mechanical fractures/failures of materials and components; assessment of fire damage related to mechanical equipment; assessment of fire protection system; assessment of vehicle damage related to hail; mechanical evaluation of vehicle systems; preparation of repair/replace cost estimates.

March 2005 **ThyssenKrupp Access**  
to October 2006 **Grandview, Missouri**

*Project Engineer*

Design and testing of vertical platform lifts for the commercial and residential fields. Research and Development of lift designs, code evaluation, cost reduction, project tracking, document archiving, and finite element analysis (FEA) of components.

May 2001 **Huhtamaki-America International**  
to February 2005 **De Soto, Kansas**

*Project Engineer*

Design, testing and installation of automated food packaging equipment for commercial plants worldwide; including automated equipment design and testing, project tracking, document archiving, finite element analysis (FEA), and drawing approval.

August 1997 **Snorkel International**  
to May 2001 **Elwood, Kansas**

*Project Engineer*

Design and testing of electrical/hydraulic aerial work platforms for the construction environment. Design and testing of scissor lifts, stick booms and articulated booms. Also involved in project tracking, cost reduction, electrical/hydraulic component selection, design approval, document archiving, and overseeing design personnel.

January 1997 **Engine Master**  
to August 1997 **Kansas City, Missouri/ Dallas, Texas**

*Design Engineer*

Installation, setup, running and tooling design of a MASCO 8-axis machining center. Troubleshooting of hydraulic, cooling, electrical, and PLC systems.

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- July 1995  
to December 1996      **Interconnect Devices, Inc.**  
                                 **Kansas City, Kansas**
- Design Engineer*  
Design and management of production prototypes, “first run,” and detailed assemblies with labor estimations.
- September 1994  
to July 1995            **Acoustics Development Corp.**  
                                 **St. Joseph, Missouri**
- Design Engineer*  
Design and manufacturing of KIOSK and ATM enclosures.

## **REGISTRATIONS and CERTIFICATIONS**

- Registered Professional Engineer in Arkansas #13596  
Registered Professional Engineer in California #37859  
Registered Professional Engineer in Colorado #44764  
Registered Professional Engineer in Illinois #62.062005  
Registered Professional Engineer in Indiana #1110096  
Registered Professional Engineer in Iowa #18749  
Registered Professional Engineer in Kansas #19239  
Registered Professional Engineer in Louisiana #36915  
Registered Professional Engineer in Michigan #6201055962  
Registered Professional Engineer in Minnesota #48071  
Registered Professional Engineer in Missouri # E-2002016650  
Registered Professional Engineer in Nebraska # E-12172  
Registered Professional Engineer in Ohio #78348  
Registered Professional Engineer in Oklahoma #22722  
Registered Professional Engineer in South Dakota #12102  
Commercial Driver’s License (CDL-A) – State of Kansas  
National Association of Fire Investigators (#14584-7458)  
National Council of Examiners for Engineering and Surveying (#30440)  
Unmanned Aircraft System (UAS) - Remote Pilot Certification (#4007678)

## **PROFESSIONAL ORGANIZATIONS**

- American Society for Metals (ASM International)  
American Society of Mechanical Engineers (ASME)  
National Association of Fire Investigators (NAFI)  
National Council of Examiners for Engineering and Surveying (NCEES)  
National Fire Protection Association (NFPA)  
National Society of Professional Engineers (NSPE)

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Society of Automotive Engineers International (SAE International)

International Association of Arson Investigators, Inc. (IAAI)

### **CONTINUING EDUCATION**

2023 *International Association of Arson Investigators (IAAI):*

*Motor Vehicles: The Engine and the Ignition, Electrical, and Fuel Systems; Self Study Course, Lenexa, Kansas*

*Motor Vehicles: Transmission, Exhaust, Brake, and Accessory Systems; Self Study Course, Lenexa, Kansas*

*Basic Electricity; Self Study Course, Lenexa, Kansas*

*Investigating Motor Vehicle Fires; Self Study Course, Lenexa, Kansas*

*Motor Vehicle Fire Investigation – 3 Day, Olathe, Kansas*

2016 *ISFI Symposium; National Association of Fire Investigators, Scottsdale, Arizona*

2015 *Ground Source Heat Pump Inspector Training; International Ground Source Heat Pump Association, Kansas City, Missouri*

2012 *International Symposium on Fire Investigation Science and Technology; University of Cincinnati, College Park, Maryland*

2009 *National Fire, Arson & Explosion Investigation Training Program; National Association of Fire Investigators, Denver, Colorado*

2008 *Fire Sprinkler Inspection Training & Certificates Program; Oklahoma State University, Stillwater, Oklahoma*

*International Symposium on Fire Investigation Science and Technology; University of Cincinnati, Cincinnati, Ohio*

2007 *Bendix Air Brake Training; City of Irving Fleet Maintenance, Irving, Texas*

*Metallurgy for the Non-Metallurgist; ASM International – Self Study Course, Lenexa, Kansas*

*Principles of Failure Analysis; ASM International – Self Study Course, Lenexa, Kansas*

2006 *OSHA Lock Out/Tag Out; ThyssenKrupp Access, Grandview, Missouri*

2005 *ADAAG, ASME-A17.1 and ASME-A18.1; ThyssenKrupp Access, Grandview, Missouri*

*ANSYS Training; DRD Technology Corp., Tulsa, Missouri*

*OSHA Health and Safety Training; ThyssenKrupp Access, Grandview, Missouri*

*Storm Water Pollution Prevention; ThyssenKrupp Access, Grandview, Missouri*

### **PUBLICATION**

Materials & Processes Magazine, An ASM Materials Solutions Publication, September 2019 | VOL 177 | No 6; SEM for Failure Analysis; with Chris Spies, P.E.