

**ENGINEER: MECHANICAL**

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EDUCATION:

2000 Bachelors of Science, Mechanical Engineering  
University of Wyoming, Laramie, Wyoming

EXPERIENCE:

September 2009 to Present **Engineering Design & Testing Corp.,  
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 systems; assessment of vehicle damage; mechanical evaluation of vehicle systems; preparation of repair/replace cost estimates; fire origin and cause investigations.

January 2007 to July 2009 **Kiewit Power Engineers, Co.,  
Lenexa, Kansas**

Lead Process Engineer. Flue gas ductwork for two pulverized coal fired boilers on an air quality control project, including ductwork sizing, maintaining velocity requirements, sizing of the induced draft fans and determining pressure drop through the ductwork. Drafted specifications and reviewed proposals for four 5,000 Hp induced draft fans. Fan manufacturer's design review and selection based on technical compliance and cost effectiveness. Reviewed the manufacturer's engineering deliverables for compliance with the contract and constructability.

Mechanical Engineer. Design and construction of combined cycle power plants and air quality control systems. Designed water, steam and air piping systems including specifying the operating conditions of the equipment used in the piping systems. Drafted specifications and oversaw purchasing of plant specialties equipment, pumps, control valves, heat exchangers, air compressors, oil/water separators, air

receiver tanks, liquid storage tanks, piping, valves and other power plant equipment.

January 2001  
to January 2007

**Bibb and Associates, Inc.**  
**Lenexa, Kansas**

Mechanical Engineer. Design and construction of combined cycle power plants and air quality control systems including resolving warranty issues concerning plant equipment with the power plant owners. Site support during construction of power plants and provided resolution to engineering errors and construction non-conformance. Sized and drafted specifications for selecting plant specialties equipment, pumps, control valves, heat exchangers, air compressors, oil/water separators, air receiver tanks, liquid storage tanks, piping, valves and other power plant equipment.

### **CONTINUING EDUCATION:**

Principles of Failure Analysis  
ASM International, October 2009, Columbia, South Carolina

Flow-Induced Vibration with Application to Failure Analysis  
American Society of Mechanical Engineers, April 2005, Houston, Texas

Power Plant Engineering  
University of Missouri Kansas City, January 2005, Overland Park, Kansas

Environmental Rules and Regulations  
University of Missouri Kansas City, January 2005, Overland Park, Kansas

### **PUBLICATIONS:**

**Braithwaite, J.A.**, "Seeing Sparks with Corrugated Stainless Steel Tubing", Proceedings and presented at the Materials Science & Technology 2010 Conference, October 2010 in Houston, Texas.

### **PROFESSIONAL ORGANIZATIONS:**

American Society of Mechanical Engineers (ASME)  
ASM International  
National Fire Protection Association (NFPA)

National Association of Fire Investigators (NAFI)

**PROFESSIONAL LICENSES AND REGISTRATIONS:**

Registered Professional Engineer in Arkansas (#14136)

Registered Professional Engineer in Colorado (#44708)

Registered Professional Engineer in Illinois (#62.063334)

Registered Professional Engineer in Indiana (#PE11012242)

Registered Professional Engineer in Iowa (#19655)

Registered Professional Engineer in Kansas (#18339)

Registered Professional Engineer in Minnesota (#48645)

Registered Professional Engineer in Missouri (#2009035162)

Registered Professional Engineer in Montana (#20415)

Registered Professional Engineer in Nebraska (#E-13093)

Registered Professional Engineer in Oklahoma (#24811)

Registered Professional Engineer in Wisconsin (#41532-006)

Registered Professional Engineer in Wyoming (#11761)

National Council of Examiners for Engineering and Surveying (Record #39260)