

J. SCOTT FRIESEN, PE  
CURRICULUM VITAE  
September 26, 2016

EDUCATION

- University of Manitoba, Winnipeg, MB 1997  
Bachelor of Science, Mechanical Engineering

TRAINING

- Trane Professional Engineering Training Course, 1997
- Certified Energy Management Training Course, 2004
- Modern Boiler Technologies and Hydronic Balancing Seminar – Little Red School House West by Dawson Co., 2010
- Adjustable Speed Drives Seminar – SDG&E, 2010
- Energy Efficient Motors Seminar – SDG&E, 2010
- Learn About Nonresidential Title 24 Standards Seminar – SDG&E, 2010
- High Rise Plumbing Installations – ASPE Webinar, 2010
- Commissioning for High Performing Buildings – ASHRAE Webcast, 2010
- Air Distribution in Wide Open Spaces Webinar – E.H. Price, 2010
- 2010 California Residential Code Changes Seminar, 2010
- 2010 CPC Code Changes – IAPMO, 2010
- 2010 CMC Code Changes – IAPMO, 2010
- Plumbing Design Webinar- ASPE, 2010
- Displacement Ventilation in Schools Webinar – E.H. Price, 2011
- Residential Fire Sprinkler Systems Webinar – ASPE, 2011
- Association of Water Technologies Water Treatment Training Seminar – AWT, 2012
- NFPA 4: Standard for Integrated Fire Protection and Life Safety System Testing Webinar – NFPA, 2012
- Introduction to Natural Gas Webinar – ASPE, 2013
- PEX in Commercial Piping Applications Webinar – ASPE, 2013
- Holdrite Pipe Hangers and Supports Webinar – ASPE, 2015

PROFESSIONAL  
REGISTRATION

- Licensed Professional Engineer, California (CA #M35444)
- Licensed Professional Engineer, Florida (#73615)
- Licensed Professional Engineer, Hawaii (#15029)
- Licensed Professional Engineer, Mississippi (#20690)

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- Licensed Professional Engineer, Arizona (#53234)
- Licensed Professional Engineer, Washington (#49743)
- Licensed Professional Engineer, Kentucky (#32077)
- Licensed Professional Engineer, Alberta, Canada (AB#72933)
- Licensed Professional Engineer, Manitoba, Canada (MB #32564)
- National Council of Examiners for Engineering and Surveying Records, NCEES (#45608)

### PROFESSIONAL CERTIFICATION

- Certified Energy Manager (CEM)
- Certified in Plumbing Design (CPD)

### PROFESSIONAL AFFILIATIONS

- Association of Professional Engineers, Geologist, Geophysicists of Alberta (APEGGA)
- Association of Professional Engineers and Geoscientists of the Province of Manitoba (APEGM)
- American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE)
- Association of Energy Engineers (AEE)
- American Society of Plumbing Engineers (ASPE)
- National Fire Protection Association (NFPA)
- International Code Council (ICC)

### AWARDS

- CEA Award of Merit in Building Engineering 2004 for mechanical and plumbing design of GS Lakie Middle School

### EXPERIENCE

More than 18 years of experience in HVAC, fire protection, plumbing and building energy conservation, system design, construction and forensic analysis.

#### **2010 – Present**

**Ivey Engineering, Inc.**

*Senior Consultant*

San Diego, CA

Senior Consultant and Project Manager for Ivey Engineering, Inc., an engineering firm that performs expert witness, construction consulting and design services. Responsibilities include design and forensic analysis of HVAC,

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plumbing, fire protection and energy management systems. Performs site inspections, testing, research, product analysis, cost estimating and is responsible for writing reports and testifying in depositions, hearings and trials.

Engagements include:

- Approximately seventy five residential construction defect expert engagements.
- Approximately twenty commercial construction defect expert engagements.
- Approximately ten design error and omission expert engagements.
- Approximately ten product liability expert engagements.

### **2007 – 2009**

**Williams Engineering**

Edmonton, Alberta, Canada

*Senior Project Mechanical Engineer*

Williams Engineering provides consulting engineering services using the disciplines of civil, structural, mechanical, electrical, building science, and environmental/geotechnical. Responsibilities included project management and mentoring junior engineers and business development for projects involving design of HVAC, plumbing and fire protection systems. Engagements included:

- HVAC, plumbing and fire protection design of eleven commercial projects, two industrial facilities, four institutional facilities, five government projects and ten educational facilities.
- Four design engagements on LEED certified projects.
- Two commissioning projects.
- Cost estimating services for more than ten projects.
- Approximately five energy audits.
- Six forensic and expert consulting engagements.

### **2004 – 2007**

**University of Lethbridge**

Lethbridge, Alberta, Canada

*Physical Plant Engineer*

Created and executed a commissioning program for all new building projects, performed ongoing energy audits and facility condition assessments. Managed and designed all central plant projects (heating and cooling). Involved in more than fifty three projects involving mechanical design, project management, energy management and commissioning. Projects included:

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- Thirteen educational facilities.
- Six design engagements on LEED certified projects.
- Six commissioning projects.
- Cost estimating services for more than ten projects.
- Approximately eighteen facility condition audits.

**2004 – 2009**

**JSF Consulting Engineering**

Lethbridge, Alberta, Canada

*Senior Design Engineer*

Provided design of mechanical systems including commercial, industrial and institutional projects. Projects included twelve commercial projects, two government projects, five industrial facilities, three institutional facilities and two residential projects.

**2001 – 2004**

**Earth Tech Canada**

Lethbridge, Alberta, Canada

*Consulting Engineer*

Provided design of mechanical systems including industrial, institutional and commercial projects. Performed energy management for local industrial plants and performed marketing and business development.

- Various projects involving mechanical design, project management, energy management and commissioning. Projects included three commercial projects, four industrial facilities, four institutional facilities, four government projects and one educational facility.
- Cost estimating services for more than twenty projects.

**1997 – 2001**

**Trane Canada**

Winnipeg, Manitoba, Canada

*Systems Sales Engineer*

- Design and commissioning of HVAC direct digital control systems.
- Existing building system design and equipment sales.
- Provided HVAC and heating design consulting to owners and design firms.