

Summary of Accomplishments:

- Specialized in chemical engineering with 2+ years of work experience in the engineering industry
- Currently enrolled in M.Sc. Engineering Management specializing in pipeline risk management

EDUCATION & TECHNICAL SKILLS

M.Sc. in Engineering Management | Specialization: Pipeline Risk Management September 2016 – Present
University of Alberta, Faculty of Mechanical Engineering
Currently enrolled in year 3/3. Course requirements are complete.

B.Sc. in Chemical Engineering | Cooperative Program Granted in April 2016
University of Alberta, Faculty of Chemical and Materials Engineering

Software Skills:

- Microsoft Office Suite (including Project and Visio)
- MATLAB
- Python
- Aspen Software (Capital Cost Estimator, Exchanger Design & Rating, Plus)
- Autodesk Inventor
- Adobe Creative Cloud Desktop Apps (Lightroom, Muse, Photoshop, Premiere Pro)
- Final Cut Pro

Key Electives: Project Management (ENG M 530), Simulation & Computer Modeling Techniques (OM 622)

Capstone Design Project: Natural Gas Processing – Cryogenic Hydrocarbon Separation

Teaching Assistantship: Data Analysis and Decision Making (MGTSC 501), Financial Management (ENG M 401)

Tutoring: Data Analysis and Decision Making, Business Development Management, Statistics I & II, Calculus I & II

WORK EXPERIENCE

Risk Modelling (Engineering Student) November 2016 – April 2017
Canadian Engineering and Inspection Ltd.

- Designed and created a Pipeline Risk Assessment tool used to accurately determine risk at the detailed level in pipelines inspected by Canadian Engineering

Project Engineering Co-op Student May – December 2015
NOVA Chemicals Corporation Ltd.

- Developed a new database using Excel and Visio for the ordering of new pipe fittings used in the Joffre plants. Created logical flow diagrams to ensure an efficient and easy-to-use system. Database ensured no manual errors were created during the ordering process.
- Designed a piping hydraulics system using Aspen software for the Corunna Third Phase Expansion Project. Validated Aspen software as a suitable replacement for KORF Hydraulics in multicomponent stream analysis.
- Assisted in developing an up-to-date insurance policy for the ethylene and polyethylene plants in Joffre by analyzing the present value of the equipment in use.

Cost Engineering – PKMS Co-op Student September – December 2014
Enbridge Pipelines Inc.

- Created benchmark reports used in senior budget review meetings and developed cost analytics on a quarterly basis, solving various issues and modifying complex Microsoft Excel formulas and plots.
- Managed the collection of project information, prepared validation reports for cost comparison, and completed project variance analyses within the Project Knowledge Management System.
- Developed in-house databases, tools and processes to be used by senior management.

Quality Controls Materials Technician May – December 2013
J. R. Paine & Associates Ltd.

- Performed density and moisture tests for trench backfill on construction sites in the vicinity of heavy machinery while upholding the required safety standards.
- Maintained integrity with test results and communicated the importance of proper compaction to completing roadwork with clients, contractors, and subcontractors.

PROFESSIONAL AFFILIATIONS AND VOLUNTEER EXPERIENCE

- Member of APEGA (E.I.T. Status), September 2016 – Present
- Member of the Project Management Institute (PMI), January 2016 – December 2017
- Spiritual Counsellor at the Alberta Hospital, August 2018 – Present
- Volunteer at Youth Unlimited Edmonton (YUE), April 2017 – Present
- Sunday School Teacher and Youth Leader for ZAMIE Church, 2012 – Present
- Sound room manager and guitarist for ZAMIE Church, 2005 – Present