

Work Experience

09/2016 – 12/2016

Calgary, Canada

Engineering Research Assistant

Medal Lab – University of Calgary

Accomplishments

Conducted confidential research on soil remediation, enhanced oil recovery technology developed by the Microengineering Dynamics and Automation Lab at the University of Calgary.

Successful completion of proof of concept studies, forwarding project to ex-situ testing.

01/2016 – 04/2016

Waterloo, Canada

Teaching Assistant

University of Waterloo

Accomplishments

Responsible for holding daily calculus tutorial sessions and office hours in support of over 500 first year engineering students at the University of Waterloo.

01/2014 – 12/2014

Toronto, Canada

Bioprocessing Research & Development

Sanofi Pasteur – Formulation & Stability

Accomplishments

Conducted research and development on novel single-use, disposable vaccine manufacturing and vial filling systems.

Performed highly sensitive, time-limited batch formulations of expensive and critical final vaccine products to be used as a model for animal toxicological studies in compliance with the United States Pharmacopeia standards.

01/2013 – 04/2013

Calgary, Canada

Pipe Stress Analyst

Fluor

Accomplishments

Analyzed pipe and refinery designs for stress and solid mechanics through the application of AutoPIPE software.

Modeled thermal expansion and weight loads on vessel skirts, and load or moment calculations on pipe flange connections to meet ISO compliance.

05/2012 – 08/2012

Aurora, Canada

Junior Project Technical Lead

Jana Laboratories

Accomplishments

Junior lead for a technical research team managing lab projects and designing work protocols and procedures for plastic pipe hydraulic and burst pressure-testing to satisfy critical ISO and ASTM standards.

09/2011 – 12/2011

Calgary, Canada

Midstream Engineering Co-op

Provident Energy Ltd.

Accomplishments

Utilized AutoCAD software to successfully design, revise, and As-Built engineering P&ID drawings that were critical for field construction to begin.

Skills

- AutoCAD : Intermediate
- ASPEN PLUS, HYSYS : Intermediate
- MATLAB : Intermediate
- C++ : Novice
- Comsol : Novice
- HTML, CSS : Novice
- Microsoft Office : Advanced
- Photoshop : Novice
- Lab Skills :
 - Aseptic Technique : Intermediate
 - Aliquoting / Dilutions : Intermediate
 - Gas Chromatography : Advanced

Education

Graduation Date – 04/2017

Bachelor of Applied Science (BAsc / BEng)

University of Waterloo

Chemical Engineering
Engineer in Training, EIT
Cumulative GPA: 3.7

Achievements

Engineer of the Future Trust (2017)
Capstone design project award

Norman Esch Finalist (2017)
University of Waterloo Pitch competition for startups and entrepreneurship

Palihapitiya - Lau Venture Creation
Fund Semi-Finalist (2017)
Startup creation competition

Projects

Capstone Design Project
Design and build of an atmospheric water generator – rapid prototyping, optimization, and factorial analysis of final design.

Profile Website
See my profile at : <https://r2jung.github.io/>

Interests

Reading | Design & Aesthetics | Coding
Prototyping | Process Optimization
Research | Hockey | Piano | Guitar