

Jonathan Loewen

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LINKS

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SKILLS

SOFTWARE

AutoCAD • SolidWorks • Python • MS Office • Matlab • C/C++ • Linux

HARDWARE

Arduino • 3D printers • Lathe • Welding • Oscilloscope • Prototyping • Ultrasonic Thickness Meter • Flow Meter

GENERAL

Class 5 BC Drivers License • Leadership • Interpersonal Skills • Detail Oriented • Time Management

EDUCATION

UBC OKANAGAN

BASC. MECHANICAL
ENGINEERING

09/2018 – Present | Kelowna, BC

KPU

FIRST YEAR ENGINEERING

09/2017 – 04/2018 | Surrey, BC
GPA: 3.15

COURSEWORK

EXTRACURRICULAR

UBCO Aerospace Club
UBCO CFD Lab

UNDERGRADUATE

Fluid Mechanics 2
Materials Science 2
Project Management
Technical Writing

HOBBIES

Computational Fluid Dynamics
Machine Learning
Music
Learning new software
3D printing

WORK EXPERIENCE

LANTIC INC. | MECHANICAL ENGINEERING COOP STUDENT

01/2020 – 12/2020 | Vancouver, BC

- Managed and planned contractor work on site for 2 independent projects.
- Produced AutoCAD sketches for project proposals and quotes.
- Learned about and used various piping and other design standards.
- Wrote documents requesting funds, completed projects, and technical reports.
- Completed pump sizing calculations which I used to get a supplier's quote.

UBCO CFD LAB | UNDERGRADUATE RESEARCH ASSISTANT

09/2019 – 12/2019 | Kelowna, BC

- Learned advanced CFD topics for analyzing fluid flow in small (capillary) tubes.
- Analyzed simulation and looked for anomalies to present in a weekly meeting.
- Automated workflow in python to more efficiently use time.

MCASPHALT INC. | GENERAL LABOURER

04/2018 – 08/2018 | Langley, BC

- Co-ordinated with power engineers to utilize and maintain heavy machinery (pumps).
- Demonstrated excellent communication skills when training four employees in a short amount of time.

TECHNICAL PROJECTS

SELF LANDING MODEL ROCKET | UBCO AEROSPACE CLUB

01/2019 – 12/2019 | UBC Okanagan

- Manage 3 subteams with 8+ students combined.
- Interfaced between executives and subteams to show progress, set goals, and explain needs.

POPSICLE BRIDGE | MECHANICS CLASS PROJECT

01/2018 – 03/2018 | KPU

- Designed, tested, and manufactured a popsicle bridge using joint analysis in Maple.
- Modelled using 2D and 3D CAD software for truss testing.

LINE FOLLOWING ROBOT | MICROCONTROLLERS CLASS PROJECT

01/2018 – 03/2018 | KPU

- Lead development of software for an adaptive line following robot.
- Learned how to use git for version control.
- Demonstrated ability to prepare for, and adapt to, unforeseen circumstances.

VOLUNTEER EXPERIENCE

ALDERGROVE ALLIANCE CHURCH | HEAD OF VISUAL MEDIA

09/2013 – 12/2020 | Langley, BC

- Scheduled and trained volunteers on presentation software.
- Evaluated potential new software.
- Assisted with the technology shift and upgrade required for Covid-19.