

# Jonathan Loewen

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## LINKS

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## SKILLS

### SOFTWARE

AutoCad • Solidworks • Python • MS Office • Matlab/Simulink • R • Linux

### HARDWARE

Arduino • 3D printers • Lathe • Welding • Oscilloscope • Prototyping

### GENERAL

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

## EDUCATION

### UBC OKANAGAN

#### BASC. MECHANICAL

#### ENGINEERING

09/2018 – Present | Kelowna, BC  
GPA: 74%

### 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

## WORK EXPERIENCE

### LANTIC INC. | MECHANICAL ENGINEERING COOP STUDENT

01/2020 – 12/2020 | Vancouver, BC

- Managed and planned contractor work on site.
- Produced AutoCAD sketches for project proposals, and quotes.
- Learned about various piping, and other design standards.
- Wrote corporate documents.

### 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).
- Calmed customers in tight situations like product shortages, and tight ferry schedules.
- 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 sub teams with 8+ students combined.
- Interface between executives and sub teams to show progress, set goals, and explain needs.

### DATA COLLECTING SHOWER TIMER | SUSTAINABILITY CLASS PROJECT

01/2019 – 04/2019 | UBC Okanagan

- Lead group of 6 students in designing, and prototyping a data collecting shower timer

### 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, unknown circumstances