Jonathan Loewen

Mechanical Engineer in Training in Kelowna, BC jonathan.loewen@outlook.com | (778) 580-7784

LINKS

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SKILLS

SOFTWARE

AutoCAD • MS Office • YorkPsychometric Software • Python • Matlab

GENERAL

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

HARDWARE

• Ultrasonic Thickness Meter • Flow Meter

FDUCATION

UBC OKANAGAN

BASC. MECHANICAL ENGINEERING 09/2018 - 04/2022 | Kelowna, BC

KPU

FIRST YEAR ENGINEERING

09/2017 - 04/2018 | Surrey, BC

COURSEWORK

EXTRACURRICULAR

UBCO Aerospace Club **UBCO CFD Lab**

UNDERGRADUATE

Fluid Mechanics 2 HVAC Heat and Mass Transfer Project Management Technical Writing

HOBBIES

Computational Fluid Dynamics Machine Learning Music Learning New Software **3D** Printing

WORK EXPERIENCE

SMITH + ANDERSEN | MECHANICAL ENGINEERING DESIGNER

06/2023 - Current | Kelowna, BC

- Used AutoCAD to provide cohesive drawings for multiple construction projects.
- Produced design spreadsheets and tools to improve design efficiency.
- Complied with various codes and standards to produce quality engineering designs.
- Coordinated with suppliers and other contractors to provide cohesive designs.

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 such as funding requests, project completion memos, 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.

TECHNICAL PROJECTS

HEATING AND COOLING LOAD DESIGN | HVAC PROJECT

01/2022 - 04/2022 | UBC Okanagan

- Established reasonable design assumptions.
- Calculated and reported on results.
- Worked with teammates to ensure consistency in calculations.
- Calculations based on ASHRAE 2009 standard.

EXPERIMENTAL LIQUID ROCKET ENGINE | CAPSTONE PROJECT

09/2021 - 04/2022 | UBC Okanagan

- Led a team of 5 students to evaluate applicability of a liquid rocket engine for competition use.
- Handled recieving quotes and interfacing with the school.
- Determined important combustion values.
- Assisted with heat transfer calculations.

SELF LANDING MODEL ROCKET | UBCO AEROSPACE CLUB

01/2019 - 12/2019 | UBC Okanagan

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