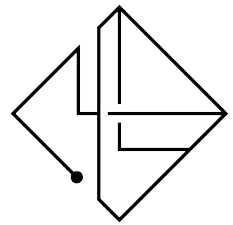# JOSHUA DOW

@ josh_dow@outlook.com   % www.joshdow.ca

EXPERIENCE

Process Control & Automation
Syncrude Canada Ltd.

📅 May 2019 – Ongoing   📍 Fort McMurray

- Worked in a team environment to investigate systems/application failures to develop solutions. Communicated with different areas to solve problems and deliver results. Engineered improvements to existing systems/applications. Collected and analyzed data to assess health of systems/applications.

Software Consultant
Lazarus Consulting

📅 Sept 2018 – February 2019   📍 Calgary

- A self-started company where I worked on a variety of projects for both individuals and companies.

Process Control & Automation
Syncrude Canada Ltd.

📅 May 2018 – Sept 2018   📍 Fort McMurray

- Worked in a team environment to investigate systems/application failures to develop solutions. Communicated with different areas to solve problems and deliver results. Engineered improvements to existing systems/applications. Collected and analyzed data to assess health of systems/applications.

Captain
University Of Calgary Dinos Swimming

📅 September 2017 – May 2019   📍 Calgary

- Coordinated the competition schedule for over 20 swimmers involving 84 events total per competition
- Encouraged a successful attitude throughout the team as we work towards our goal of winning USPORT.

PROJECTS

PI System App
Syncrude

📅 10 weeks   📍 Fort McMurray

A .NET web application which now handles/manages all data requests site wide. Allows for viewing,reporting, and completion of requests through a variety of mechanisms.

Hydrocarbon Reporting
Syncrude

📅 2 weeks   📍 Fort McMurray

Replaced existing reporting system. Created and implemented solutions to allow for better reporting. Involved a technical paper and presenting to high level executives.

SKILLS

- **Communication Effectiveness:** Through personal interactions with peers and teammates, writing and presenting mathematical proofs, and public speaking.
- **Analysis:** Critical thinking with the ability to translate theoretical concepts into reality in order to provide reliable and understandable solutions to problems demonstrated in multiple real world projects.
- **Teamwork:** Co-operates with peers in various projects. Assisting academically struggling teammates to ensure eligibility of entire team.
- **Self-Starter:** Eager to learn, will take challenges and tasks head on in order to complete them quickly and correctly as demonstrated in technical projects and as a leader of the UofC Men's Swim Team.

EDUCATION

B.Sc. Computer Science Information Security
University Of Calgary

📅 Sept 2014 – April 2019

B.Sc. Mathematics
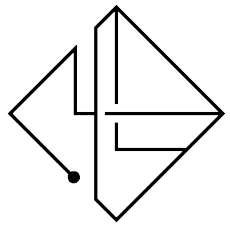**University Of Calgary**

📅 Sept 2016 – April 2020

STRENGTHS

`ARM7/8` `C/C++` `Haskell` `Java` `Prolog` `Python` `.NET` `HTML` `CSS` `LaTeX`

`Algorithm Design/Analysis` `Higher Mathematics` `PI, OSIsoft` `Statistical Analysis` `Systems Analysis` `SEEQ` `Excel` `Ethics & Technology` `Logic` `Operating Systems` `Databases` `Networks` `Data Structures` `Cryptography` `Crypto-analysis` `Network/System Security`

JOSHUA DOW

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PROJECTS CONT.

Webscraper

Syncrude

📅 4 weeks   📍 Fort McMurray

Written in C Sharp, this was a script which read data from a remote server and website then processed the data. It wrote the data into our internal data system. Replaced an old broken script. Still in use.

Real-Time Journal

Syncrude

📅 2 weeks   📍 Fort McMurray

Replaced a web-based application with an executable which allows the user to specify areas on the site where they want to read data from. In real time it updates a preview of the data from the database. Produces an excel file.

LABDAT/WEBDAT

Syncrude

📅 4 weeks   📍 Fort McMurray

Replaced data reporting tool with a web application. Allows user to request data by location, time range, type, person and export to pdf.

Stewardship Reporting

Syncrude

📅 5 weeks   📍 Fort McMurray

Replaced stewardship data collection and reporting. Used by high level executives for reporting purposes

Database Migration

Syncrude

📅 1 week   📍 Fort McMurray

Backed-up and migrated production databases across remote servers.

Reflective Object Creator/Inspector

UofC

📅 3 weeks   📍 Calgary

My favourite school project which received an A+. Written in Java to allow objects to be serialized/de-serialized across a network. Can also reflectively inspect objects to find out meta data about them.

REFERENCES

Available Upon Request

EXTRACURRICULAR

🏆 **USPORT 50m Backstroke National Record**
Currently hold 50m Backstroke record. Set in 2016.

🏆 **Canadian National Age Group Champion**
Won 50m Backstroke from 2010-2016.

🎓 **Tutoring**
Over a decade of tutoring in a variety of topics

CERTIFICATIONS

♥ Standard First Aid & CPR-C,AED

♥ National Lifeguard-Pool

♥ CPR Instructor/Examiner

♥ Swim Intsructor/Examiner

♥ Lifesaving Instructor/Examiner

♥ Water Safety Instructor

♥ Swim For Life Instructor

▦ PI System Analyst

AWARDS

🏆 **2013-2014 Swim Alberta Outlying Area Swimmer Of The Year**

🏆 **Swimming Canada Male Backstroke Award**

🏆 **First Team All-Canadian**