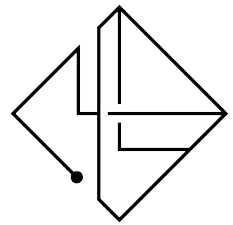# JOSHUA DOW

@ 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

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.

PI System App
Syncrude

📅 2 weeks   📍 Fort McMurray

Written in Python3, this application was used to take user data to specify PI Tag data to be registered or transferred. This application is used daily and replaced an old excel spreadsheet. Still in use.

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

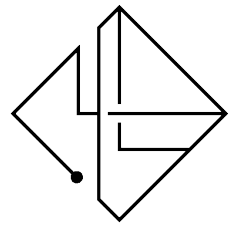📅 Sept 2016 – April 2020

STRENGTHS

ARM7/8   C/C++   Haskell   Java   Prolog   Python   C Sharp/VB   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

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

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 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**