

# Cheyenne Goh

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## EDUCATION

### Schulich School of Engineering, University of Calgary

Sept 2018 – Apr 2023

Bachelor of Science in Software Engineering, Minor Mechatronics (GPA: 3.41/4.0)

Calgary, AB

- **Relevant Coursework:** Software Development/Design, Data Structures and Algorithms, Operating Systems, Computer Networks, Embedded System Interfacing, Signals and Transforms, Digital/Electrical Circuits, Mechatronics, Mechanics (Statics/Dynamics), Professional Technical Communication
- **Awards:** Schulich School of Engineering Dean's Entrance Scholarship, Alexander Rutherford Scholarship, University of Calgary Entrance Scholarship

### Leduc Composite High School

Sept 2014 – Jun 2017

Alberta High School Diploma

Leduc, AB

## WORK EXPERIENCE

### Flexcim Manufacturing Services Inc.

May – Sept 2021

Design Engineering Intern

Edmonton, AB

- Performed a complete software rewrite of a dated DOS operations tracking program using the Python Tkinter GUI toolkit and a MySQL database to make it intuitive, easily-maintained, and able to run natively on Windows 10
- Developed a Python program to retrieve Human-Machine Interface inputs and Programmable Logic Controller sensor data from plastic injection molding machines and display data from MySQL on the HMIs via Modbus TCP
- Integrated functionality in the program to continually collect hundreds of data entries daily for every injection molding cycle in an SQL database for analysis by three colleagues with management roles to help in optimizing production
- Updated and troubleshooted PLC programs for the operation of four different Kawaguchi injection molding machine models with AutomationDirect Productivity Suite Programming Software
- Redesigned and maintained injection molding HMIs using Kinco DTools Configuration Software, improving user experience for 10+ factory floor workers and mechanical engineers
- Implemented a new safety interlock on press brake by wiring a photoelectric sensor, limit switch, and PLC, and programming the PLC using AutomationDirect CLICK Software, mitigating the risk of injury to operators by over 50%
- Assisted engineering manager in advancing Industry 4.0 strategy, composed technical documentation, and applied the 5S principles of Lean Manufacturing to promote the continuous improvement of manufacturing processes

## SKILLS

- **Languages:** Python, Java, C/C++, Processing, MIPS-32 Assembly, PLC ladder logic, UML, MATLAB, HTML/CSS, LaTeX
- **Technologies:** MySQL, Git, Unix, PIC24, Arduino, Intel Quartus Prime, SOLIDWORKS, Inkscape, Adobe Photoshop, GIMP

## PROJECTS

### Hack Your Learning Hackathon, Group Project

Mar 2021

- Built a user-friendly application that facilitates supply chain management of furniture inventory in a MySQL database
- Collaborated remotely in a team of four using Java to receive requests, compute the most cost-effective order fulfillment, modify the database, and produce an order form
- Presented a brief video demonstration to a panel of five judges and made appropriate UX revisions based on feedback from industry experts from Canada, Washington, California, and Greece

### ENGG 233, Individual Project

Nov – Dec 2018

- Designed the main and user interfaces of a simulated digital dashboard for two consumer vehicles using the Processing graphical library that takes input sensor data and performs calculations required for useful information to be visualized

## INVOLVEMENT

### Olympic Short Track Speed Skater

Oct 2012 – Feb 2021

- Represented Singapore in the 1500-m short track speed skating event at the PyeongChang 2018 Olympic Winter Games
- Trained 30-40 hours per week for three years with Olympic Oval High-Performance Program as a full-time student