

# DAN HUYNH

Mechatronics Engineering | danielryanh7@gmail.com | 226-606-9284

## + SUMMARY

- 12+ months of active coding experience in C/C++, Python/Flask, HTML/CSS, SQL
- 3+ years of experience in designing mechanical equipment using SolidWorks, AutoCAD and Inventor
- 2+ years of active experience using Microsoft Office
- Skilled and personable communicator that loves working with others

## + PROFESSIONAL EXPERIENCE

### Data Entry Specialist and Quality Assurance Operative | Tigercat Industries | May 2021 – Aug 2021

- Organized 3-hour training sessions in GoToTraining that connected Tigercat trainers to domestic and international dealers
- Created scripts in Excel that filtered over 49,000 items to detect discrepancies in item and supplier numbers
- Hands on technical experience operating and assisting the configuration of functions on major forestry machinery (Tigercat X870D, H855E)
- Integrated and verified the legitimacy of ~100,000 objects within MS AX in preparation for a system migration to MS 365

### Salesperson and Cashier | Boathouse | Nov 2019 – Mar 2020

- Effective communication skills and persuasion were used to sell \$133 of merchandise per hour, resulting in winning Top Seller of the Month (January 2020)
- Provided friendly customer service and optimized product placement to assist a team of 5 with achieving sales quotas

### Merchandise and Cashier | Shoppers Drug Mart | Sep 2018 – Nov 2019

- Worked in a team of up to 7 to optimize product placement, whilst simultaneously providing in-person and cellular customer service
- A systematic and methodical approach was adopted by the team to resolve customer complaints, which resulted in a qualitative increase in customer satisfaction

## + PROJECTS

### Organize-Em' | Website Designed for Task Organization | Built with Python, Flask, HTML, CSS, SQL

- An aesthetic and minimalistic website that organizes one's daily tasks to increase productivity and declutter the mind
- Designed an intuitive UI using bootstrap along with python functions and SQL queries that handle errors, order tasks by priority, add/remove tasks from a SQL database, populate a task table, and render webpages
- Earned a 100% grade on the CS50X final project and earned the HarvardX CS50: CS50's Introduction to Computer Science verified certificate

### Computer Speaker | A 3D-printable speaker designed from scratch | Parts, Assemblies and Drawings Designed using SolidWorks

- Extensive knowledge of SolidWork functions used to design a computer speaker composed of a shell, speaker stand, PCB, button, and button mount
- Geometry was optimized such that the speaker remained under a weight restriction (500g), whilst being visually appealing
- Created a series of SolidWorks drawings that contain tolerances/allowances, dimensions, an exploded view of the assembly and a bill of materials

### QHDT Sensor Apparatus | Integrated Temperature + Pressure Sensing Apparatus | Built using Arduino Components + Arduino IDE

- Lead a 6-person team that designed/constructed/programmed a sensor apparatus for the SpaceX Hyperloop Design Competition
- The sensor reads the temperature + pressure of various essential components every 0.25s and outputs a priority warning when a critical measurement is reached (50°C and 400 psi respectively)
- An effective prototype was created within a 4-month time limitation whilst adhering to size and component compatibility restrictions and remaining under a \$90 budget.

Project files (code, SolidWorks files + screen shots, in-depth documentation + design processes) and a detailed description of each project can be found by visiting: [linkedin.com/in/danryanhuyh](https://www.linkedin.com/in/danryanhuyh) and navigating to the "Projects" section

## + EDUCATION

University of Waterloo | 2021-Present | GPA: N/A | Honours BSc. (Mechatronics Engineering + Computing Option) Candidate

Queen's University | 2020-2021 | GPA: 4.0 | BSc. (Computer Engineering) Candidate | Queen's University Excellence Scholarship

Glenview Park Secondary School | 2016-2020 | Average: 94% | 16x awards + 8x Honour Roll + Ontario Scholar + Valedictorian Nominee