Mackenzie Chau

Mechatronics Engineering Student

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 mackenzie-chau
in mackenzie-chau

Skills

Languages
- C++ // Java // Python // HTML // CSS // Javascript

Design
- AutoCad // SolidWorks // Freehand Sketching // GD&T

Tools
- Git // Microsoft Office Suite

Education

University of Waterloo
BASc in Mechatronics Engineering
Sept 2018 - Present

Relevant Courses
- Data Structures and Algorithms
- Microprocessors and Digital Logic

Achievements

President's Scholarship of Distinction — 2018
- Awarded by University of Waterloo to students with an entrance average over 95%

AAA Hockey Player — 2011-2018
- One of **top 32 out of 300+** players selected to compete in AAA GTHL Midget All Star game (2018)
- 5x GTHL (Greater Toronto Hockey League) AAA **Champions** (2012 - 2016)
- 2x **Ontario Champions** at provincial hockey tournament (2013, 2015)

Interests

Ultimate Frisbee
- Currently playing on the University of Waterloo Varsity Team and competed at Nationals

Self-taught Barber
- Cuts hair for clients on a weekly basis, while managing own clientele

Fitness
- Follows a 5-day split workout schedule of 7.5 hours a week, while managing a clean and healthy diet

Golf, Skiing, Fashion, Travelling

Experience

Castlebridge Development • Project Management and Electrical Intern
Toronto, ON
May 2019 - Aug 2019
- Designed preliminary drawings for the **2nd largest development project** in the Waterloo Region, a 300+ unit condo site, using **AutoCad**
- Managed **multiples sites** making regular visits and building strong relationships with workers
- Assisted head electrician with **installing and testing** electrical power, communications, lighting, and control systems

World Class Hockey • Skills Coaching Assistant
Toronto, ON
Sept 2017 - Sept 2018
- Developed creative and enjoyable training sessions which enhanced the development of fundamental hockey skills for **over 20 students**
- Instilled determination among students through **positive communication**, constructive feedback, and encouragement

Projects

Personal Website
- Developed my own personal website using HTML, CSS, and Javascript: http://www.mackenziechau.gq/
- Currently working on the second version of my website aiming to **improve functionality** with Javascript

Skittles Sorter Robot
- Collaborated with teammates to design and build a **successful robot** that was able to autonomously distinguish between and sort Skittles by colour
- Constructed robot using Lego Mindstorms EV3 Kit and custom-made 3D parts through the aid of well-planned **hand-sketched and digital (AutoCAD) designs**
- Programmed conveyor belt functionality using **RobotC** which moved Skittles in a smooth and well-timed manner

3D Printed Phone Stand
- Designed and printed a 3D model of a **functional phone stand** using **SolidWorks** while meeting design requirements
- Includes a **unique feature** that provides space for the phone to be plugged in while the stand is in use

Tron Day Robot
- Built a **remote controlled robot** in **less than 12 hours** that is capable of picking up objects and precisely placing them on intended platforms