

Ziming [Tiger] Ye

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SKILLS

Languages: C++, Python, Java, C#, JavaScript, CSS, HTML, Robot Framework, VBA

CAD: Solidworks, Inventor, Fusion 360, AutoCAD, TinkerCAD

Other: Git, Blazor, Selenium, Microsoft Office, GD&T, Cura, Confluence, GrabCAD Workbench

PROJECTS

3D Printable Computer Mouse [↗](#) Dec 2020 - Jan 2021

- Design an ergonomic, functioning computer mouse using **SOLIDWORKS**' surfacing tools
- Constraints included designing around a premade circuit board and designing for ease of 3D printing using **Cura**
- Dimensions of circuit board were measured with a caliper and then transferred into a **SOLIDWORKS** model

Chat App [↗](#) Aug 2021 - Sep 2021

- Designed and programmed an online chat application hosted on **Heroku** using **Ably Realtime API** and **Node.js**
- Applied **jQuery** to add **HTML** message elements to the chat box for every new message
- Implemented multi-channel system allowing for multiple chatrooms at the same time

WaterlooWorks Cover Letter Script [↗](#) Feb 2021 - Present

- Utilized **Selenium** and **Chrome WebDriver** to access WaterlooWorks and find employer information
- Specific data from each employer was found through **XPath** and stored within **Python** script
- Employer information was written to Word using **Python-docx** in proper cover letter formatting

Conveyor System Assembly [↗](#) Nov 2020 - Dec 2020

- Constructed a conveyor with sorting capabilities in **SOLIDWORKS** applying understanding of assemblies.
- Designed a manufacturable conveyor system through integrating McMaster-Carr **CAD** files into assembly
- Applied ideas of **modular design** to conveyor system for ease of assembly and flexibility when sorting packages

EXPERIENCE

Software Developer, VirtaMove, Ottawa, ON May 2021 - Aug 2021

- Created robust and reusable **JavaScript** code for identifying page components and providing tips for new users
- Exported backend data to csv files and pdf reports using **C#**
- Wrote automated test scripts for products using **Robot Framework** and **Python** to ensure quality of releases
- Worked with design interpretive to implement designs into web application using **Blazor** in **.NET**

Midnight Sun - UW Solar Car Team, Waterloo, ON Feb 2021 - Present

- Designed mounting hardware and snap covers for battery box components using **SOLIDWORKS**
- Finalized handle mechanism design for locking and opening the solar car doors in **SOLIDWORKS**
- Added miscellaneous hardware to assembly such as nuts, washers etc. to ensure completeness of **CAD** file

Design/Overall Lead FRC Team 1246, Agincourt C.I., Toronto, ON Sep 2018 - Jun 2020

- Designed a mechanical spring-loaded hooking mechanism for robot elevator through sketches and **Fusion 360**
- Conducted **rapid prototyping** and **stress simulations** in **Fusion 360** to test integrity of mechanisms
- Directed general workflow and communicated with multiple leads to coordinate the construction of the robot

EDUCATION

University of Waterloo, Candidate for BAsC, Mechatronics Engineering Sep 2020 - Present

INTERESTS

Long Distance Running, Chess, Ultimate Frisbee, Drawing