Ziming [Tiger] Ye

647-621-0076 | t28ye@uwaterloo.ca 🔗 | tigerqye.github.io 🔗

linkedin.com/in/tiger-ye-2999221b5/ 🔗 | grabcad.com/tiger.ye-1 🔗 | github.com/tigerqye 🔗

SKILLS

Languages: C++, Java, Python, Javascript, CSS, HTML

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

Other: Git, Microsoft Office, GD&T, Cura, GrabCAD Print, GrabCAD Workbench, Photoshop

PROJECTS

3D Printable Computer Mouse 🔗   [Solidworks, Cura]   Dec 2020—Jan 2021

- Used extensive knowledge of Solidworks' surfacing tools to design an ergonomic, functioning computer mouse.
- Constraints included designing around a premade circuit board and designing for ease of 3D printing.
- Dimensions of circuit board were measured with a caliper and then transferred into a Solidworks model.

Canada Airport Flight Display 🔗   [Java]   Jan 2020—Mar 2020

- Used understanding of Java to write an airport application that read flights from file and displayed flights based on current dates and times using GregorianCalander class.
- Key features include the purchase or refund of tickets in accordance with time until take-off and plane capacity.

Conveyor System Assembly 🔗   [Solidworks]   Nov 2020—Dec 2020

- Demonstrated deep understanding of Solidworks assemblies to create a conveyor with sorting capabilities.
- Designed a manufacturable conveyor system through integrating McMaster-Carr component CADs into conveyor.
- Applied ideas of modular design to conveyor system for ease of assembly and flexibility.

Personal Website 🔗   [Javascript, CSS, HTML]   Dec 2020—Present

- Programmed a functional and responsive website utilizing tools such as flexbox, keyframes and media screen.
- Self-taught front-end web-development through online resources.

EXPERIENCE

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.
- Conducted rapid prototyping and stress simulations to test integrity of the climb beam-balancing mechanism.
- Directed general workflow and focused design priorities within design team.
- Communicated with machinists, electrical team and programmers to finalize robot design.

Maintenance Worker, Toronto Pan Am Sports Centre, Toronto, ON   Jul 2017—Aug 2017

- Performed general maintenance duties to ensure the smooth operations of the centre.
- Adapted to the different duties and coworkers assigned on each day.
- Entrusted to work independently due to strong work ethic.
- Collaborated with senior workers in the excavation of ground for replacement of wiring.

EDUCATION

University of Waterloo, Candidate for BASc, Mechatronics Engineering   2020—Present

- [Culminative GPA: 4.0] Relevant Courses: Algorithms and Data Structures, Midnight Sun (Solar Car Team)

INTERESTS

3D Design, 3D Printing, Long Distance Running, Chess, Ultimate Frisbee