Ziming [Tiger] Ye

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SKILLS

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

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

Other: Microsoft Office, Cura, GrabCAD Print, Photoshop

PROJECTS

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

Used extensive knowledge of Solidworks' form tools to design an ergonomic functioning computer mouse, while also designing around a circuit board from a separate mouse and for 3D printability.

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

Used understanding of Java to write an airport application that read flights from file to display and allowed customers to purchase or refund tickets in accordance with real dates and times.

Conveyor System Assembly [Solidworks] Nov 2020—Dec 2020

Demonstrating deep understanding of Solidworks assemblies and part integration to create a functioning and buildable conveyor system integrating McMaster-Carr component CADS.

Goose Escape Game [C++] Nov 2020—Dec 2020

Developed random wall generation and power up programs for a endless 2D dungeon game using BearLibTerminal libraries.

Personal Website [Javascript, CSS, HTML] May 2020—Jun 2020

Programmed a fully functional website to display personal projects using self-taught knowledge of front-end web-development.

EXPERIENCE

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

Performed general maintenance duties.
Assisted in the excavation of ground for replacement of wiring.
Entrusted to ensure the smooth operations of the centre.

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

Designed robot components in accordance with purchasable parts using Fusion 360.
Directed general workflow and dimensioned components to be manufactured.
Communicated part dimensions with machinists designing with ease of production in mind.

EDUCATION

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

[Culminative GPA: 4.0] Relevant Courses: Algorithms and Data Structures, Circuits, Calculus 2

INTERESTS

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