

THOMAS ZHOU

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EXPERIENCE

FIRST Robotics Team Leader

FRC Team 4914

📅 September 2017 – June 2021 📍 Toronto, ON

- Responsible for assigning tasks to team members, communicate to teacher supervisors, as well as organize weekly meetings
- Designed the robot using Autodesk Inventor CAD (computer-aided design) software
- Organized and led workshops to train and educate new members joining the team

Autodesk Inventor Java Python CAD CAM Hardware

String Orchestra Leader

Victoria Park Collegiate Institute

📅 September 2019 – May 2020 📍 Toronto, ON

- Tasks as a leader include scheduling sectionals for various instruments in the orchestra and communicating with the conductor on soloist information
- Won gold at OSA (Ontario Strings Association) in 2018

VOLUNTEERING

Durham Chinese Culture Center Soccer Club

Soccer coach and volunteer

📅 May 2016 – May 2020

- Tasks include teaching kids soccer skills, refereeing games, and helping coaches with various tasks

Toronto Public Library and FIRST

NXL Lego Robotics Teacher

📅 March - June 2019

- Taught kids ages 7-9 how to build and code lego robots at Fairview Library
- Worked in a team environment to provide the best experience to promote STEM in youth

SKILLS

Programming Languages

Java Python C++ HTML+CSS C Arduino C#
GDScript LaTeX

Software

Autodesk Inventor Unity Godot Blender Vegas Pro 15

Other

Power Tools Leadership

PROJECTS

LeagueAI

Prediction AI For League of Legends

📅 April 2021 – Ongoing 📍 thomaszhou01/leagueAI

- League AI is an application that predicts the winner of a league of legends game live.
- Uses the live client data API to collect game data
- Data is fed into a neural network trained using 10000 games to identify trends and patterns that will predict which team wins
- Officially Approved by Riot Games

Python tensorflow keras Riot API
JSON Tkinter

IOT Plant Waterer

Plant watering system using Blynk with an ESP8266 and Arduino

📅 June 2021 📍 thomaszhou01/WaterPlant

- An automated plant watering system built using Blynk with an Arduino and ESP8266
- Automatically waters plant when soil moisture sensor detects too low of a moisture in soil

Arduino C++ IOT Hardware
Electronics

Attendance System

String Orchestra Attendance System

📅 March - May 2021 📍 thomaszhou01/Attendance

- An attendance system for my school's string orchestra
- Uses a text file as a database to save and retrieve student information

Java Java Swing Database

EDUCATION

University of Waterloo

Mechatronics Engineering

📅 2021 – Ongoing 📍 Waterloo, ON

Relevant courses: Calculus, Linear Algebra, Mechatronics Engineering

Victoria Park Collegiate Institute

Ontario Secondary School Diploma

📅 2017 – 2021 📍 Toronto, ON

Academic Average: 97%

Victoria Park Collegiate Institute

International Baccalaureate Diploma Programme

📅 2019 – 2021 📍 Toronto, ON

IB Score 41/45