

THOMAS ZHOU

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🎮 tomtom2352

EXPERIENCE

FIRST Robotics Team Leader

📅 September 2017 – June 2021

- 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

String Orchestra Leader

📅 September 2019 – May 2020

- 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

📅 May 2016 – May 2020

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

NXT Lego Robotics Teacher

📅 March 2019 - 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

PROJECTS

LeagueAI 🔄 thomaszhou01/leagueAI

📅 April 2021 – Ongoing

- 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 🔄 thomaszhou01/WaterPlant

📅 June 2021 - July 2021

- 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

SKILLS

Programming Languages: Java Python C++ C HTML+CSS Arduino C# GDScript \LaTeX

Technologies: Autodesk Inventor Arduino Raspberry Pi Unity Godot Blender Vegas Pro 15

EDUCATION

University of Waterloo

📅 September 2021 - Ongoing

Bachelor of Applied Science, Mechatronics Engineering

- Relevant courses: Calculus, Linear Algebra, Mechatronics Engineering

Victoria Park Collegiate Institute

📅 2017 – 2021

OSSD and International Baccalaureate Diploma Programme

- Academic Average: 97%
- IB Score 41/45