



Winston Zhao

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Grade 10 student at Unionville High School, Web Design/Developer,
Robotics Team Member.

Education

September 2020 – Present

- **Unionville High School**
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Experiences

November 2019 – Present

- **VRC Team 839A - Head Programmer & Digital Development Team Lead**

As the head programmer and digital development team lead of VEX Robotics Competition Team 839A, I manage our libraries of code for our robot. I collaborate with other programmers on Team 839A to solve problems and find new solutions to challenges we are presented to in VRC. I lead the team in using online technologies such as Microsoft Teams, Microsoft Office, SharePoint, and GitHub. On VRC Team 839A, I also contribute heavily to designing and building the robot for each season, using tools such as Fusion 360 CAD and MeshCAM. We have successfully ranked 6th in Ontario and qualified for the global VEX Worlds 2021 Championship.

December 2020 – February 2021

- **Youth Programming | Code Club – Volunteer Instructor**

At Code Club I volunteered weekly and taught youth from the GTA the basics of programming, such as loops, functions, and sensing using Scratch. We used Scratch to build small games, animations, and chat bots.

February 2019 – May 2019

- **Dr. X Academy – Student Volunteer**

During my time volunteering at Dr. X Academy, I worked with other younger students interested in robotics and programming and helped with any questions that came up.

August 2018 – February 2019

- **FLL Team Polaris | Programmer & Robot Engineer**

On First Lego League Team #38474 Polaris, I worked on building the structure of the code as well as the main programming for our robot. I worked on mechanical design, building the robot to accomplish the missions in FLL. Our team managed to get all the way to provincials, placing 2nd. We also won our Qualifying tournament, as Tournament Champion.

Projects

December 2019 – Present

- **Team 839 Website**

Designing, developing, and maintaining the Team 839 Website, <https://www.839.team>. This website was created using the Bootstrap framework, with HTML, CSS, jQuery, and JavaScript. The website displays content relevant to VRC Team 839, with articles and information about the team.

December 2020

- **VRC - Encore Online Challenge Video**

Edited video for VEX Robotics Competition using Adobe Premiere Pro.

July 2020– Present

- **Elapse VRC App Project**

Contributing and maintaining the Elapse VRC app open-source project. This app aims to provide a better experience of the schedule of tournaments for VEX Robotics competitors. The app is in development with a cross-platform Flutter app, as well as a web-app developed with the React framework.

August 2020 – December 2020

- **Controller Deskmat**

Designed a game controller themed Deskmat and sold it as a group buy with TheKey.Company.

Achievements

May 2021

- **Skills Ontario Competition – Web Design and Development**

Received **2nd place** silver award in the field of Web Design and Development at the 2021 Skills Ontario Competition. Created a website using HTML, PHP, and CSS, featuring a secure database and admin system for updating and creating products on the main website page, with mySQL.

January 2020

- **VRC – Tournament Champion**

Our VEX Robotics Competition team received the **1st place** Tournament Champions award at Appleby Competition.

November 2018

- **FLL – Tournament Champion**

Our FLL Team Polaris won **1st place** Tournament Champion at the Tomken Road Regional Qualifying Tournament.

Tools & Technologies

Proficient:

- HTML
- CSS
- JavaScript
- Fusion 360
- GitHub
- Microsoft Office/365
- Microsoft Teams
- Adobe Illustrator

Intermediate:

- Java
- C++
- Python
- Flutter/Dart
- React
- Adobe Photoshop
- Adobe Premiere Pro
- Microsoft Azure
- Google Cloud Platform
- Android Studio
- MeshCAM