Winston Zhao

📌 *Markham Ontario*

✉ *winstonzhao.ca@outlook.com*

📞*+16479366882*

📄 *[LinkedIn]*

🌐 *[winstonzhao.ca]*

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

Education

September 2020 – Present

- **Unionville High School – STEM Program**

Experiences

May 2022 – Present

- **VRC Team 25K – Founder & Captain**
  I founded Vex Robotics Competition Team 25K with two friends and we are competing in the 2022-2023 Vex Robotics Competition season. I am working as team captain, managing the team and working on robot design. Currently on the team we have seven members.

February 2022 – May 2022

- **VRC Team 3150A – Programmer & Robot Design**
  While on Silver Owl Robotics Team 3150A, I worked with the team to produce a competitive robot for our local, provincial, and international Vex Robotics Competition tournaments. We have won three local live remote tournaments, and qualified to the 2022 Ontario Provincial Championships. We achieved the most prestigious award of 2022 Provincial Tournament Champion, and qualified to the international 2022 Vex Worlds tournament. At Vex Worlds we made it into the round of 16 in our division.

March 2020 – February 2022

- **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 managed our libraries of code for our robot. I collaborated 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.

August 2019 –March 2020

- ### VRC Team 839Z – Programmer & Mechanical Team
  As a member of the programming team and mechanical team on VRC Team 839Z, I worked on building the robot as well as programming it to complete the challenges presented in the VEX Robotics Competition. I learned new programming techniques as well as improved my skill with C++.

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 – February 2022

- ### 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.

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

Achievements

May 2022

- **Skills Ontario Competition – Web Design and Development**
  Received **2nd place** silver award in the field of Web Design and Development at the 2022 Skills Ontario Competition. Created a website for a fictional online bookstore using HTML, PHP, and CSS, featuring a secure database and admin system for updating and creating products on the main website page, with mySQL. The website had an improved overall design and a better administration portal over last year.

February 2022

- **VRC – Provincial Champion**
  Our Vex Robotics Competition team received the most prestigious award, **1st place** Ontario Tournament Champions at the 2022 Vex Ontario Provincial Championships.

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 for a fictional online dog collar store using HTML, PHP, and CSS, featuring a secure database and admin system for updating and creating products on the main website page, with mySQL.

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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