

William Qin

Creator and Developer

I am a student with a passion for building solutions by programming and working with technology!
I am always eager to learn new things, take opportunities to grow, and tackle difficult problems.

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 <http://williamqin.com>

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Skills

Programming C#, Java, Python 3, JavaScript

Tools Unity, Git, Android Studio, Visual Studio, Eclipse,

Web HTML 5, Markdown, CSS 3, Bootstrap 4, jQuery, Angular, Jekyll (Ruby)
Amazon Web Services (S3, CloudFront, Route 53, IoT, Lambda)

Tech/APIs Firebase, Arduino, Raspberry Pi, OpenCV, Amazon Alexa Skills, Virtual Reality

Experience

D&R Electronics | Intern

| Jul. – Aug. 2017

- Developed a Windows application in **C#** to automate message creation for road lightboard signs, saving up to an **hour** of worker time per message created
- Assembled parts for manufacturing vehicle electronic equipment
- Tested equipment for mechanical and electrical defects

Team 4308: Absolute Robotics | President

| Sep. 2017 - Present

- Manage FIRST Robotics Competition team of **87+ members** to raise **\$25 000+** and build an **industrial-sized robot**
- Established a strategy team to build a **Firebase** web app and collect data for making key decisions
- Lead software team to program essential robot controls and **autonomous** driving mode in **Java**
- Effective robot design and strategy led to team success as **world championship divisional semi-finalists**

Projects

Vision Motion | Android Application

| Oct. 2017 – Jan. 2018

- Leveraged **real-time computer vision** with **OpenCV** on a phone camera to track the motion of an object and produce a line graph of its position, velocity and acceleration
- Deployed a website at visionmotion.tech and launched the app on Google Play Store with **over 580 total installs**

Talk 2 Control | Web Application

| Dec. 2017

- Developed a full stack system that allowed presenters to control presentations with their **voice**
- Created a web interface that **listens for keywords** to alert a **Python** script to press space on the user's computer
- Led a team of four to become the **1st Place** winner at Local Hack Day at Shopify Toronto

Awards & Achievements

2018 **28th in the World** | Sir Isaac Newton Physics Exam

2018 **Honour Roll** | Canadian Computing Competition Senior (University of Waterloo CEMC)

2018 **1st Place in School and Honour Roll** | Canadian Senior Math Contest (CEMC)

2016 **1st Place Provincial Winner** | Business Services Operations Research Category (DECA Ontario)