



PROGRAMMING AND SOFTWARE

Programming Languages

C++

Java

Processing

Visual Studio

MIT App Inventor

Software

AutoCAD

Blender

Unity

iMovie

Illustrator



SKILLS

- Great leadership skills and sense of professionalism gained through co-founder role in "Project Cambodia" – a charitable initiative to build schools for underprivileged children in rural Cambodia.
- Refined ability to problem solve and work under pressure through extensive competitive experience in VEX Robotics tournaments.
- Creative thinker and team player as seen through distinction in various mathematics and coding contests.
- High accuracy and attention to detail in work; 99%+ accuracy in managing Chemistry Lab database and inventory.



EXPERIENCE

Green Initiative

2016-2017

Head Technician

- Successfully implemented renewable, clean energy sources to power bottle fillers and a heated greenhouse in school
- Led one of four action teams in the operation of solar panels to power club ventures
- Resolved technical problems in the motor, blender, plastic extruder apparatus, 3-D Printer, and audio-visual setup
- Chosen E-conference delegate in the initiative to revise the Alberta education curriculum

Vex Robotics Team

2015-2017

Lead Programmer

- Designed robot chassis using AutoCAD; placed second in provincial championship
- Integrated and programmed motors, arms, and other components as per driver preference
- Programmed the autonomous segment of the competition using RobotC and VEXNet
- Responsible for critical robot repairs over duration of tournament with limited materials

Coding Club

2015-2017

Student Teacher and Member

- Taught introductory C++, and Java to students with varying levels of coding experience
- Created visual animations using the OpenGL Utility Toolkit in C++
- Directed setup of new equipment: including 3-D Printers, Gaming Laptops, VR Machine, etc.
- Troubleshoot and resolved errors related to the hardware/software aspects of systems



PROJECTS

Executive Event Co-Ordinator: Westwood Student Council: 2016-2017

- Responsible for planning and executing logistics of all school events including (dances, projects, theme weeks, exhibitions). Proposed projects, resolutions, and held voting power in executive budget and planning meetings.

Member: Game Design and Creation Club: 2015-2017

- Used Unity and C# to create animations and a zombie-survival game. Chosen to compete in the Provincial Animation Competition.

President: Colours Multicultural Club: 2015-2017

- Worked to empower and provide students the means to exhibit their unique cultural pride around school. Budgeted, organized, and advertised various events.

Peer Tutor: Westwood Math Leadership Committee: 2015-2017

- Taught students difficult course material in academic classes. Promoted the STEM fields in the student body through interactive events including: Pi-Day Recital Competition, Scavenger Hunts, Math Puzzles, and a stocks and financial information session.



EDUCATION

UNIVERSITY OF WATERLOO

BASc Candidate: Electrical Engineering (1A)

Class of 2022

ID: 20718610



AWARDS

- Recipient of Waterloo President Scholarship (2017)
- AP National Scholar with Distinction (2017)
- Westwood Scholar (2017)
- VEX Robotics Design and Autonomous Award (2016)
- Beaver Computing Challenge: Distinction (2016)
- YMCA Peace Medal (2015)