# JOSH BLATT

## 1B MECHATRONICS ENGINEERING

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## PERSONAL PROFILE

I am a Mechatronics Engineering student at the University of Waterloo with strong interests in artificial intelligence and robotics. I am extremely excited to apply my skills and continue to improve upon them.

## SKILLS

- C++
- Java
- Python
- SolidWorks
- AutoCAD
- HTML
- CSS
- JavaScript
- SQL
- Strong programming fundamentals; can pick up new languages quickly

## ACHIEVEMENTS

- High school valedictorian
- Recipient of Ontario Principles Award for outstanding leadership
- Recipient of Teacher's Life Bursary
- Recipient of the University of Waterloo's President's Scholarship with Distinction for having a grade 12 average >= 95%
- Placed 5th / 72 teams in the Don Mills Programming Gala

## INTERESTS

- Rock Climbing
- Speed Solving Rubik's Cubes
- Abstract Art
- Documentaries
- Guitar
- TV shows
- Listening to Music
- Working Out
- Spending time with friends

## EXPERIENCE

### ELECTRICAL SUBTEAM MEMBER

*Midnight Sun Solar Car Team| September 2018 - Present*

- Worked alongside other members to redesign pre-charge circuit using Altium
- Added operational amplifier to pre-charge circuit for differential signaling to improve reliability of the board
- Verified battery box functionality by measuring the output voltages of each individual battery in the array

### CAPTAIN OF FIRST ROBOTICS TEAM

*Robo Sapiens - Team 5699 | September 2014 - June 2018*

- Designed, built, coded, tested, and competed with a robot built in 6 weeks
- Programmed autonomous code and driver controls for robot using Java
- Worked with motors, gears, pneumatics, and conveyor belts to create systems capable of in-taking, lifting, and outputting objects
- Organized and led meetings for the team of 24 members
- Approached companies and obtained sponsorships totaling $3000 for the team

### HACKATHON PARTICIPANT

*StarterHacks| January 2019*

- Designed an application for Amazon's Alexa to streamline the cooking process by finding a recipe and dictating it to the user, given a list of ingredients
- Aimed to implement Yummly API (a recipe finder) using C++ with the Alexa Developer Console
- Prototyped website using Bootstrap 4, HTML, and CSS
- Pitched idea to judges, receiving positive feedback and constructive criticism

### IT SYSTEMS DESIGNER

*Cut Rite Lumber | July 2018 - August 2018*

- Designed double entry accounting system with Quickbooks
- Implemented inventory management system using Quickbooks
- Created invoice template and connected the products purchased with the inventory server

## EDUCATION

### UNIVERSITY OF WATERLOO

*Candidate for Bachelor's in Applied Science in Honours Mechatronics Engineering*

Relevant Courses
- Digital Computation (C++)
- Data Structures and Algorithms (C++)