

# SHARON BASOVICH

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## EXPERIENCE

### Magna International Mechatronics Engineering Intern

July 2024 to August 2024

- Designed and tested prototypes
- Performed physics calculations and data analysis
- Created automations for database and physics simulations
- Worked with CATIA V5 CAD software

### CFO at Lions Robotics

September 2024, Ongoing

- Financial planning, analysis, and decision-making of over \$140,000 yearly
- Top competitive robotics organization in Canada, with over sixty members and four World Championship qualifications

### Logistics Executive at IgnitionHacks

December 2024, Ongoing

- Planned hackathon of over 500 students

### Website Designer at HorizonHacks

September 2024, Ongoing

- Designed horizonhacks.ca for the HorizonHacks hackathon

## EDUCATION

### St. Theresa of Lisieux CHS - 2022 to Present

- Leading Robotics Club that teaches underprivileged students robotics
- High School AP (Advanced Placement) Program
- Information and Communications Technology Specialist High Skills Major (ICT SHSM)
- Current grade average of 100%
- Robotics, Computer Science, and Math classes above grade level

## COMPETITIVE TEAMS

### Vex Robotics Competition - 2023-2025

- Team Captain and Programming Lead for team 82855S
- Multiple-time World Championship qualifying team and First Place at Provincials
- Ten awards for design, hardware, programming, and performance

### Scrapyard Hackathon - 2025

- Placed 1st with IoT project using React, NextJS, Supabase, and Python

### Hack the Apocalypse - 2024

- Placed 4th working collaboratively in a team to build a remote-controlled drone carrier powered by AI computer vision

### Business Competitions - 2023-2024

- National-level FBLA competitor and executive at Vaughan FBLA
- Top 10 at DECA provincials

## CONTESTS & TESTS

### Carnegie Mellon University picoCTF

#### Cybersecurity Competition - 2025

- 113th out of 10460 (top 1%)

#### The SAT - 2024

- 1570/1600 - 99th percentile

### The University of Waterloo Canadian

#### Computing Competition - 2024 & 2025

- Top 100 out of 6184 (top 1.5%) using C++

#### International Maths Challenge - 2023

- Top 1% Global Champion
- Largest proctored online maths challenge in the world

#### Mathematics Contests - 2023-2025

- Distinction in Euclid, Fermat, Cayley, Pascal, CIMC, and COMC

#### AP Calculus BC - 2024

- Scored a 5, the highest score

#### University of Waterloo Financial Competition

- Top 3 overall

## TECHNICAL SKILLS

### Programming

- Proficient in TypeScript, Java, and C++
- Full-stack experience coding competitively and at hackathons
- Programming particle filter localization, odometry, and PID for competitive robotics

### Hardware

- Experience with Raspberry Pi, Arduino, and ESP32 microcontrollers
- Experience with soldering and wiring
- Designed and built components for a competitive robotics team

### CAD and 3D Printing

- Proficient with CATIA V5, Fusion 360, Solidworks, and Blender

### Microsoft and Google Suite Apps

- Extensive experience including programming Excel macros with VBA

## LANGUAGES

Native proficiency in English, French, and Russian