

Shilo Jeyarajasingam- Mechatronics Engineer

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Skills

Programming Languages: Java, Python, C/C++ , Robot C

Software: AutoCAD, SolidWorks, Microsoft Excel, Powerpoint, Vex Robotics

Other: Project Management, Accounting experience, Public Speaking, Bookeeping/Documentation, Machine Shop Familiarity

Education

Mechatronics Engineering - University of Waterloo, Class of 2029

Currently attending the University of Waterloo for Honors Mechatronics Engineering. Current member of Waterloo Formula Electric, currently working on research and development for the team's newest race car model

Experience

Fallsview Indoor Water park

Nov 2022 – Aug 2024

Lifeguard/Slide Attendant

- Supervised and guarded wave pool, enforcing pool rules and treating injuries requiring first aid.
- Answered questions and concerns from guests when not on guard duty.
- Coordinated with other slide attendants to ensure smooth operation of slide systems.
- Filed reports regarding incidents that required intervention/first aid.
- Developed fundamental **customer service** skills

Taco Bell/KFC

Oct 2021 – Jan 2022

Cashier

- Processed customer orders at both drive-thrus and in-person.
- Cleaned tables and bathrooms during closing shifts.
- **Addressed customer complaints** and provided recommendations regarding menu items.

Sharleez Bridal

Sept 2019 – Feb 2020

Event Assistant

- **Coordinated scheduling** during bridal show with other organizers to ensure that everything was happening on time.
- Organized materials, cleaned facilities, and set up equipment for events.
- Greeted guests, accepted payments, reviewed tickets, and served food and beverages.

Projects

Tic-Tac-Toe Robot Project

Oct 2024-Dec 2024

- Constructed and programmed a LEGO EV3 Robot from scratch to play Tic-Tac-Toe against other players
- Installed minimax algorithm into robot software so that the robot will never lose against a player, while going through proper ideation/testing procedures

Store Renovation

July 2021 – Jan 2022

- Participated in **renovation and remodeling** of Sharleez Bridal Boutique.
- Installed dress stands, toilets, mirrors, and desks while making sure to do proper safety checks
- installed lightbulbs, worked with power tools, and helped redo flooring for the grand opening.

Trebuchet AutoCAD Design Project

March 2024 – April 2024

- **Designed schematics** of a trebuchet for a school project using **AutoCAD**, with a diagram of what it will look like during each stage of construction and building, while parts and worked on construction for three weeks.
- Tested and modified the design to maximize projectile distance and meet project standards, increasing average projectile distance by **25 percent**

Certifications & Awards

Certifications/Awards

- National Lifeguard Certification
- CPR-B Certified
- Emergency First Aid Certification

Awards

- Schulich STEM Scholarship Nominee (\$120,000)
- RBC Children of Employees Award Winner (\$2,500)
- Stamford Collegiate Excellence in Science Award (\$250)