

# Sharujan Shan Sivakumar

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## Education

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### University of Guelph

- Year 3 – Bachelor of Mechanical Engineering
- Valuable Courses – Engineering Design, Manufacturing and Material Science

## Technical Skills

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**Programs:** SolidWorks, MATLAB & Simulink, AutoCAD, Autodesk Inventor, and Arduino

**Languages:** JavaScript & HTML, C and Java

**Certifications:** SolidWorks Certified

## Projects

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### Engineering & Design II | Kinder Surprise Toy

- Designed an animal-based toy with a functional potential energy mechanism on SolidWorks
- Implemented the use of gears, springs and locking mechanisms for energy storage
- Calculated and simulated for toy to travel a minimum of 2 feet.

### Engineering & Design II | LEGO Reverse Engineering

- Recreated and fully assembled a LEGO Technik with a 200-piece set on SolidWorks.
- Measured, scaled, designed, and built the set under 2-week deadline.
- Exploded, motor, exploded and more were used to showcase all aspects of the build

### Engineering & Design I | Teddybear Wheelchair

- Developed and designed a robot car using Arduino to follow a specific path then shoot a ball into a basketball net.
- Using knowledge from Physics and other engineering courses to fine tune and reduce the time for the circuit.
- Understood and achieved accessibility regulations whilst being able to perform each circuit excellently.

## Work Experience

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**The Source || Sales Associate || Tillsonburg || November 2019 – August 2020, July 2021 – September 2021**

- In-depth knowledge of all phone processing systems and understanding behind POS system
- Exceptional teamwork and communication skills with team and customers
- Trained and certified under Service Simplified
- Top 10 Associate from 2019 – 2020 and experience training other associates

**Math and Physics Tutor || Guelph || November 15, 2021 – Current**

- Teaching and developing knowledge on Math and Physics concepts
- Showcasing problem solving strategies to conquer applications