

# Kavya Sundaresan

INTEGRATED BIOMEDICAL ENGINEERING AND HEALTH SCIENCES STUDENT

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## Highlight of Qualifications

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- Enrolled in level one of the five year Integrated Biomedical Engineering and Health Sciences program
- Experienced team leader with effective collaboration and communication skills developed while working as a camp leader
- Strong problem solving, time management and organization skills demonstrated during hackathons and designathons

## Skills

Technical: AutoDesk Inventor, AutoCAD, Adobe Premiere Pro, Adobe Photoshop, Microsoft Office, Python, Chem Sketch

Lab & Safety Skills: WHMIS Trained, Emergency First Aid & CPR C, Biosafety lab training

Languages: English, Tamil

## Education

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### Bachelor of Biomedical and Mechatronics Engineering

Class of 2025

McMaster University, Hamilton ON

- Cumulative **GPA of 4.0** on a 4.0 scale
- Awarded with the McMaster President's Award for achieving an entrance average above **95%**

## Experience

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### Camp Leader | City of Mississauga

Jun –Sep. 2019

- Developed program plans for groups of **10-110 children** from ages 4-14
- Directed volunteers and evaluated performance of leaders in training
- Collaborated to create behavior management plans for children with disabilities and children with behavior challenges

### Hospital Volunteer | Trillium Health Partners, Mississauga ON

June 2019 – Mar. 2020

- Awarded with the **100 hours** service award
- Delivered water to over **150 patients** within 2 hours on a weekly basis
- Coordinated and handled time sensitive tasks for over **100 hospital visitors** each week

### Reading Buddy | City of Mississauga

Sep. 2016 – June 2017

- Taught children reading comprehension strategies
- Reported child's progress to parents and program coordinator

## Extracurricular Activities

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### Design Lead | Google Design Solutions Incubator Program

Jan. 2021 – Present

- Worked in a team of 6 to develop a container that holds pills and reminds users when to take medication
- Designed the user interface for the app that tracks medicine consumption

### High School Ambassador | McMaster Women in Engineering

Jan. 2021 – Present

- Presented to over **30 students** about McMaster Engineering and women in STEM
- Advocated for women in engineering and campaigned for STEM education

### Team Member | MacChangers

Sep. 2020 – Present

- Created a website that educates the public about the conservation spaces in Hamilton
- Directed a team of 4 through the engineering design solution process

## Projects

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### University of Ontario Tech Designathon

Jan. 2021

- Conceptualized a wrist band for people with anxiety disorder in less than **48 hours** and **placed first**
- Directed a team of 4 through the design process and development of a business plan

### Prosthetic Hip Implant

Nov. 2020

- Modeled a hip implant for a patient with Legg Calve Perthes disease using Autodesk Inventor
- Completed a materials selection process for the production process of the hip implant

### McMaster Engineering Competition

Nov. 2020

- Constructed a Rube Goldberg machine within **10 hours** using reusable/recyclable household items
- Solved complex problems using sustainable engineering practices in a high pressure environment