

Kavya Sundaresan

MECHATRONICS & BIOMEDICAL ENGINEERING STUDENT

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Highlight of Qualifications

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

Skills

Technical: AutoDesk Inventor, AutoCAD, HTML, CSS, NI Multisim, Microsoft Office, Python, C++, Matlab, C, Simulink

Lab & Safety Skills: WHMIS Trained, Biosafety lab training, Dissection

Languages: English, Tamil

Education

Bachelor of Mechatronics and Biomedical Engineering

Class of 2025

McMaster University, Hamilton ON

- Cumulative **GPA of 3.8** on a 4.0 scale
- Awarded with the McMaster President's Award for achieving an entrance average above **95%**

Experience

Undergraduate Research Assistant | MNSL, McMaster University

May - Sep 2022

- **One out of seven** USRA awardees for the electrical and computer engineering department
- Developing electrochemical sensors for glutamate detection in biofluids
- Independently writing a review paper comparing research on electrochemical sensors for antibiotics detection

Learning Resources Assistant | McMaster University

May - Aug. 2021

- Created an introduction to **Python** course for over **600** incoming first year students under the faculty of Engineering
- Taught an **AutoDesk Inventor** workshop and a high school physics review course to over **300** students
- Collaborated in a team of 8 to plan and run a designathon for incoming students

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

Extracurricular Activities

Junior Sponsorship | McMaster Design League

May 2022 - Present

- Contacted **100+** companies and UI/UX professionals for designathon sponsorship/mentorship/judging roles
- Organized and ran designathons with **300+** participants along with **6** cross functional teams

Engineering Ambassador

Sep 2022 - Present

- Organized and ran events for **300+** prospective students under the engineering faculty
- Helped prospective students and their parents make informed decisions regarding university

High School Ambassador | McMaster Women in Engineering

Jan. - May 2021

- Presented to over **30 students** about McMaster Engineering and women in STEM
- Advocated for women in engineering and campaigned for STEM education
- Assisted making vlogs to feature the lives of students in the faculty

Pacemaker

Present

- Worked in a multidisciplinary team to create the back-end/front-end software using Simulink and Python
- Tested and debugged the software on an FRDM K645 board

Digital Circuit Design Project

Dec. 2021

- Designed and built a digital circuit that repeatedly flashes my student number on a seven segment display
- Used an oscilloscope to trouble shoot the circuit and measure timing diagrams

University of Ontario Tech Designathon

Jan. 2021

- Modeled the winning assistive technology wristband for anxiety patients in 36 hours
- Completed a materials selection process for the production process of the wrist band