



SOPHIE STUPALO

UNIVERSITY OF WATERLOO
3A BIOMEDICAL ENGINEERING
STUDENT - 4.0 GPA

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TECHNICAL SKILLS

- JavaScript
- C++
- CUDA
- OpenGL Shading Language
- R with Shiny and ggplot2
- MySQL
- Object-oriented programming
- Raspberry Pi
- Arduino
- Version control
- Solidworks
- 3D Printing
- DaVinci Resolve

SOFT SKILLS

- Problem solving
- Teamwork
- Leadership
- Organization
- Work ethic
- Professionalism

ACTIVITIES & INTERESTS

- Entrepreneurship
- Playing sports, primarily hockey, lacrosse, and volleyball
- Reading novels
 - **Prev:** My Grandmother Asked Me to Tell You She's Sorry
 - **Curr:** The Creator's Game
 - **Next:** A Man Called Ove

WORK EXPERIENCE

CHRISTIE DIGITAL SYSTEMS

Agile Software Developer | September 2021 - December 2021

- Simulated colour divergence and chromatic aberration in an interactive web app using **JavaScript**, **C++**, **CUDA**, and **OpenGL shaders**
- Completed bug fixes and feature adds in collaboration with a 15-person software development team while following an **agile** development methodology

DEPARTMENT OF MANAGEMENT SCIENCES, UNIVERSITY OF WATERLOO

Developer Research Assistant | January 2021 - April 2021

- Utilised the engineering design process to design, develop, and deploy an **R Shiny** web app for Dr. Mehrdad Pirnia to produce data visualizations in support of the engineering accreditation process

GUMSTIX RESEARCH CANADA

Platform Developer Intern | May 2020 - August 2020

- Developed hardware specific embedded Linux distributions for custom PCB assemblies using the Yocto tool (images)

PROJECTS

UNIVERSITY OF WATERLOO FIELD LACROSSE CLUB

Founder and President | September 2019 - Present

- Built the team around the core values of **diversity**, **equity**, and **inclusivity**, and partnered with the **UW Alliance** to solidify and practice those values as the club grows
- Chaired weekly executive meetings
- Planned and executed detailed practices that cater to all skill levels

PERIPHERAL NEUROPATHY SOLUTION

2B Term Prototyping Design Project | May 2021 - August 2021

- Practiced **circuit design**, soldering and **3D modelling**, while using an **Arduino**, vibrating motors, and resistive pressure sensors to prototype a solution to the peripheral neuropathy problem space

AWARDS

CANADIAN ENGINEERING MEMORIAL FOUNDATION UNDERGRADUATE AMBASSADOR

Regional Award - Ontario (\$5000) | 2021

- "Sophie Stupalo. Who, with her strong leadership skills and community involvement, has been judged to be one of the most promising female engineering students in Canada"

ONTARIO PROFESSIONAL ENGINEERS FOUNDATION

Undergraduate Scholarship (\$1500) | 2020

PROFESSIONAL ENGINEERS ONTARIO BRAMPTON CHAPTER

Women in Engineering Scholarship (\$1000) | 2019