Samiksha Gupta

Mobile: +1 613-879-9200 | **guptasamiksha2112@gmail.com** | LinkedIn | GitHub | Website

TECHNICAL SKILLS

Programming languages: C/C++, JAVA, Python, CSS, HTML, JavaScript, SQL.
Tools: MS-Office tools, GitHub, Fusion 360, MATLAB, LABVIEW.

SUMMARY

- Experienced in working with **Raspberry Pi ver. 3 and Ubuntu**, with a thorough understanding of **ARM** Assembly language for effective system-level programming.
- Theoretical understanding and practical implementation of **Circuits**, conducting experiments with precision and proficiency.
- Created and maintained an active GitHub profile, presenting a collection of coding projects and showcasing consistent engagement and contribution within the platform.
- Conducted multiple experiments as part of my **OSS** course, gaining hands-on experience and practical skills in the process.
- Demonstrated proficiency in adeptly managing basic lab optical components, including lenses, mirrors, detectors, and lasers, ensuring meticulous setup and calibration for experiments.

APPLIED PROJECTS

ROCK-PAPER-SCISSOR GAME **JANUARY 2024**

- Developed a rock-paper-scissor game using **Python** and the random module to generate computer moves and compare them with user inputs.
- Implemented a graphical user interface using **Tkinter** to display the game results and keep track of the score.

PERSONAL PORTFOLIO **DECEMBER 2023**

- Designed and coded a personal portfolio website using **JavaScript, HTML, and CSS**, demonstrating skills in web design and development, user interface design, and responsive web design.
- Implemented various features and functionalities on the portfolio website, such as a contact form, a navigation menu, using JavaScript libraries and frameworks, such as **Bootstrap**.

DESIGNING AND 3D PRINTING A LENS **OCTOBER 2023**

- Designed and created a 3D model of a lens using **Fusion 360,** applying advanced CAD skills and knowledge of optics and geometry.
- Printed the lens prototype using **3D printing technology**, ensuring high quality and accuracy of the final product.

DESIGNING AN OPTICAL Y COUPLER **FEBRUARY 2023**

- Fabricated a Y-coupler from optical materials using advanced techniques, such as **sandpaper polishing,** to improve the optical quality and performance of the device.
- Tested and verified the Y-coupler's functionality in a specific optical setup, ensuring accurate signal splitting, low loss, and high efficiency.

VOLUNTEER EXPERIENEC/EXTRA-CURRICULAR ACTIVITIES

GALA VOLUNTEER **APRIL 2023**

- Participated as a volunteer at the Engineering Institute of Canada (**EIC**) and Institute of Electrical and Electronics Engineering (**IEEE**) Gala event, helped organize awards, distribute pamphlets, and ensured orderly seating with name cards.

EDUCATION

SEPTEMBER 2022- PRESENT

Bachelor of Information Technology with specialization in Optical Systems and Sensors
Carleton University & Algonquin College, Ottawa, ON

- Second Year Standing
- CGPA – 8.00/12
- University Entrance Scholarship
- Expected Graduation Date: April 2026