Aswin Pandeya

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Education

McMaster University — Hamilton, ON
Bachelor of Computer Engineering Co-op - 11.75/12 GPA — *Sept 2025 – June 2030*

Assumption Catholic Secondary School — Burlington, ON
Grade 12 Average: 97%, Founder of Debate Club, Concert Band Member, DECA Exec — *Sept. 2021 – June 2025*

Experience

Zero Latency — July 2024 – Present
GameMaster
- Garnered over 450+ 5 star google reviews with my name in all of them, appreciating my service
- Had to re-solder batteries, find compatible lithium-ion batteries that were compatible to a PCB and replace them
- Handled social media marketing, creating content to upload and market the business

STEM Leadership — Nov. 2023 – Apr. 2024
Outreach Member
- Sent formal emails to the Mayor of Calgary and other university professors to invite them to events
- Volunteered to mark literature reviews sent by students to participate in a competition
- Collaborated with other team members and the President of the organization to lead a competition

Projects

Ferrofluid Speaker | *Python, Arduino, Inventor, Fusion, Mathematics, Electromagnetism* — January 2025 – Present
- Self-taught how Fourier analysis works, specifically the DFT, roughly the FFT, and applied that using python to create a real time audio frequency spectrum
- Created a 3D model to hold ferrofluid that would serve to be a display for the project
- Applied the Arduino IDE and used python to access a computer's stereo mixer that would communicate to an Arduino
- Applied understanding of the basic principle of electromagnetism onto the design

8 Bit Adder | *Logic Gates, Circuits, Transistors* — April 2025 – May 2025
- Replicated how ALUs in CPUs add numbers, by making a circuit that acts as an 8-bit adder
- Self-taught how transistors work under certain currents, and how they influence subsequent transistors
- Self-taught how to create logic gates with these transistors and how to combine them to create logic gates and then into an adder
- Took what I learned and made an educational YouTube video explaining all the concepts I learned

Q-Arm | *Python, Inventor* — January 2025 – Present
- Created 3D model that claws onto a variety of different shaped objects, optimizing the design for a high surface area upon contact, 3D printed them with proper and efficient infill to reduce material waste
- Created a program that scanned bar-codes, looked up products, created a shopping cart for a customer, and generates a receipt
- Used proper formatting and properly used a laser cutting machine to cut acrylic into gears that mesh properly
- Had to be able to communicate proficiently with teammates as most of the software we were using did not allow for real time collaboration/editing

Personal Website | *JavaScript, HTML/CSS, Git, SSH Protocol, DNS* — December 2025 – Present
- Used HTML and CSS to make the skeleton of my website and style it, used JavaScript to add functionality and add accessibility options. Learned how to generate SSH keys, understood how they communicate with GitHub
- Learned how to use Git (merging, push/pull, commit) and worked with it to push my code to a server that would have my website on a domain I bought

Check my website for more projects that I've done

Technical Skills

Languages: Python, C#, C++, JavaScript, HTML/CSS, MATLAB
Developer Tools: Git, VS Code, Visual Studio, Arduino, Inventor, Fusion, Touchdesigner, FL Studio
Libraries:NumPy, Matplotlib, pyAudio