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# Arush Gupta

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## SKILLS

### Technical Skills

- **Coding**
  - (Proficient) Python, HTML, CSS
  - (Knowledgeable) C++, PHP, MySQL (PHP), OpenCV (Python), Javascript
  - Visual Studio Code, Sublime, Pycharm, Github Desktop, Pytesseract
- **Hardware/Networking Skills**
  - Arduino Development
  - Formal Soldering Training
  - WPILIB FRC - Robot code development, deployment
- **Graphical Design/ Video Designer**
  - Premiere Pro

## CERTIFICATIONS

- WHMIS Training
- Working Alone Administrative Procedure
- Violence Prevention Administrative Procedure
- Worker Health & Safety Awareness in 4 Steps

## EXPERIENCE

### Precision E-Business Group – Python Programmer

July 5th, 2023 – August 4th, 2023

- Worked on OCR programs involving pytesseract, cv2 and other OCR related modules in python
- Created applications to integrate CHAT-GPT api into zoho creator and python programs
- Worked with public NLP (Natural language processing) models to improve OCR read accuracy

### HDSB Hackathon 2023 – Co-Leader/Video Designer

March 2nd, 2023 – April 3rd, 2023

- Designed a solution to either education or sustainability in a creative/innovative manner. Our duo had chosen education for the project, and solved it through a Unity developed video game.
- Created a fully production ready video within the 48 hours giving to complete the project
- Created graphical design and art for the appeal of the game mechanics

## **E2 Young Engineers, Milton/Burlington – Volunteer/Mentor**

March 13th, 2023 – July 5th, 2023

- Helping young kids as mentor in developing their innovative/creative skills through lego engineering
- the Lead Python instructor for the older kids in the March Break program

## **FRC Robotic Team 9263 – ALD LIONS – Programmer**

January 2023 – Present

- Using WPILIB to develop robot code for the ROBORIO
- Making webcam code to attach to robot for better driving and accurate movements for picking up objects
- Creating tank drive systems and Tune PID for a arm, through damping theories
- Calculated a acceleration curve formula for smoother driving and acceleration
- Represented Aldershot at provincials in Hamilton, Ontario with the team for FRC

## **EDUCATION**

### **Aldershot High School, Burlington**

September 2021 – Present, Burlington

- Participating in the HDSB I-STEM program
- Main technological courses are ICS3U0 and TEJ3M1

### **Olympiads School**

July 2023 – Present

- Attending: Computer Contest Lvl 2, Math Gr 11, SAT english

## **AWARDS**

### **Timeline**

**2023** : Highest Junior Score for Canadian Computing Competition in Aldershot

Canadian Computing Competition is a Waterloo computer contest for high school students in solving mathematical problems with the power of programming and algorithms.

**2021** : Certification of distinction for Math Gauss Content

## **REFERENCES**

**Annie Lu** | Owner of Burlington e2 Young Engineers, [annie@e2youngengineers.com](mailto:annie@e2youngengineers.com)

Available upon request.