

Tavleen Aneja

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PROJECTS

- File Scanner and spell checker | [GitHub](#) Feb 21
- Utilized a file scanning and spell checker **Java** system that collects specific details maintaining proper grammar in the document. Users can access the files easier and run them through the scanner to see errors.
- IEEE-754 Converter | [GitHub](#) Mar 21
- Designed a converter to convert decimal representation of values to a binary format representation in IEEE -754.
 - The **Java** program allows values in decimal and binary to be printed so understanding the conversion is more straightforward.
- Plantum | [GitHub](#) Nov 21
- Developed a plant monitoring system that collects the soil moisture, humidity, temperature, and brightness of the surrounding area in real-time through C. This allows users to conduct surveys for the plant so changes can be made on how they are maintained.
 - Implemented an STM32 micro controller, DHT22 sensor, and a photoresistor to measure the growth pattern of plants.

WORK EXPERIENCE

- Virtual Robotics Training Academy - Coop Jul 21 – Aug 21
- Tested software and applications of robotics using **Python** to find errors in the company before its release to students.
 - Increased the company's ability to maintain and run the course by offering critical feedback on improvements.
 - Solved issues in the company's course by detecting complications in how the course is being ran in Ontario.
- FRC Robotics Team Member Sep 22 – Jun 22
- Designed and built a functioning turret system which can properly complete tasks through the use of wiring and machinery.
 - Build parts for the robot competing in the FRC Robotics competition.
- Compass Canada- General Help Employee Mar 22 – Jul 22
- Provided customer service at one of the main restaurants in the Toronto Zoo by assisting all around the company.
 - Greeted customers to the restaurant, following through on orders, along with carrying out many transactions.
 - Maintained the restaurant, making sure floors, and tables are clean for customer satisfaction.

VOLUNTEER EXPERIENCE

- Army Cadets Sep 17 – Jun 22
- Instructed other cadets to ensure they have proper training to survive, instruct and solve complex problems in the world.
 - Completed three survival courses at a military base to train the future cadets in aspects of leadership.
 - Provided customer service and resolved problems in the community by offering support to the Veterans in Toronto.
- Amit Vig Law Office Nov 22 – Feb 22
- Organized over **1000** documents through Microsoft excel so accessing files is more efficient and easier for lawyers.
 - Simplified the structure of the workplace by reorganizing and fixing placements of material around the office.
 - Verified filing system to match the filing system in person, so client material is easier to access when clients are called.

SKILLS

- TECHNICAL SKILLS: Java, C++, C, Python, Arduino, STM32, HTML

EDUCATION

- University of Waterloo B.A.Sc. - Computer Engineering Sep 22- Apr 27
First year Undergraduate- 1A term

