

Preetkaran Rawal

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Highly motivated and adaptable individual, who is passionate about developing relationships with people and developed strong leadership and analytical skills through participating in variety of clubs and programs.

SUMMARY OF QUALIFICATIONS

- **Demonstrated strong leadership and presentation skills** through initiative of cultural café night in high school.
- **Examined and investigated** the chemical composition of E-juice (present inside of E-cigarette) using **Synchrotron** at Canadian Light Source.
- **Improved present learning system in high school** by conducting forums and surveys in **collaboration with admin staff**.

SKILLS

- **Proficient: Python, C++ and Visual Basic.**
- **Familiar with: Java, JavaScript and HTML/CSS.**
- Exposed to: **Altera Quartus II and Eclipse.**
- Fluent in **English, Hindi and Punjabi.**

EDUCATION

UNIVERSITY OF WATERLOO [2020]

- Candidate for Bachelor of Applied Science, **Honours Computer Engineering**
- Related Coursework: [Digital Circuits and Systems, Physics 2 for Engineers, Eng. Design and Embedded Systems]
- Member of **Robot Racing Team**, Wish Youth Network System, **SPIE** and cricket intermural team.

ACHIEVEMENTS

- **Won the National Science Poster Prize for the Students on the Beamlines 2015** conducted by Canadian Light Source.
- **Nominated for Loran Scholar Award and Schulich Scholarship.**
- Awarded and recognized for **excellence in Mathematics and Physics in high school.**

INTERESTS

- Have a passion for learning **about the Cosmos.**
- Frequently engaged in **learning new skills** from online resources such as **edX and CodeAcademy.**
- Addicted to cricket, ping-pong and tennis.

PROJECTS

BALLISTICS GAME -programmed in Python High School [2015]

“User is to aim cannon balls at the targets.”

- Introduced to **Computer graphics.**
- Received a **grade of 100 for the final project.**

HANGMAN GAME –programmed in Visual Basic High School [2013]

“User is to guess the name of the movie, song or book until the Kangaroo “dies””

PHONE DIRECTORY –programmed in C++ Personal-Project [2016]

Created the phone directory to get a better understanding of Linked Lists and Classes in C++.

BATTLESHIP –programmed in Python Personal-Project [2014]

“User plays with the computer (enemy) to sink all the enemy’s ships.”

- Introduced to **manipulation of 2D arrays.**

EXTRA CURRICULARS

SYNCHROTRON High School [2014]

- **Examined and interpreted various results and graphs** like high content of Nickel in E-cigarettes, to develop a better understanding of the working of E-cigarettes.
- **Presented the research on E-cigarettes** in front of **15 scientists and the members of Saskatoon District School Board.**

ACADEMIC CO-OP

University of Saskatchewan [2020]

- Selected to work with two professors from Physics and Engineering Physics Department.
- **Improved the University of Saskatchewan’s Plasma webpage** using **HTML/CSS.**
- Developed better **understanding of laws governing the Universe** through projects, discussions with professors and by reading books.

SHAD PROGRAM

University of Waterloo [2014]

- One-month intensive engineering and entrepreneurship program for high school students.
- **Learned and applied the skills of identifying problems and their effective solutions** through various informative sessions and a **design project.**
- Awarded a title of *100 W Bulb* – *“A person who lights up a room.”*