

# Smit Bhavsar

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## Summary of Qualifications

- Excellent written documentation skills through writing detailed technical reports about hardware and experimental labs.
- Displayed strong leadership and oral communication skills through effectively collaborating with team members on Ryerson Gujarati Association (RGA) and hosting various events.
- Demonstrated strong problem-solving skills and ability to adapt and work under pressure through teaching students how to build and assemble PC's at Dr. X Academy.
- Ability to manage relationships with others when engaging in teamwork, particularly in interdisciplinary environments such as collaborating with my peers on lab projects and maintaining healthy relationships throughout the process.

## Technical Skills

**Computer Languages:** Assembly, Bash, C#/C++, CSS, Git, HTML, Java, JavaScript, Linux, Python, Perl, Swift, SQL, Unix, VHDL.

**Applications:** Arduino, AutoCAD, Fusion360, MATLAB, Multisim, Quartus, SolidWorks, XCode.

**Hardware Equipment:** Automatic Test Equipment (ATE), Function Generators, Soldering Iron, Multimeters, Oscilloscopes.

## Education

(B.Eng.), Computer Engineering (2019 – Expected Grad: 2024).

Ryerson University: CGPA – 3.56/4.33, Dean's List: 2019.

**Relevant Coursework:** Computer Organization and Architecture (COE608), Digital Systems (COE328), Engineering Algorithms and Data Structures (COE428), Solid State Physics (PCS224) and Microprocessor Systems (COE538).

## Projects

**Portfolio Website: HTML • CSS • Bootstrap • JavaScript / Visual Studio Code** 08/2021

- Designed and developed a fully responsive portfolio website using HTML, CSS and JavaScript.
- Incorporated Bootstrap Framework to access open-source templates for UI Interface elements.

**Multi-Stage Buffer Amplifier: NI Multisim** 12/2020

- Systematized a circuit with a 3-stage 2N3904 transistor configurations with a single-supply that included a multistage, inverting, transistor amplifier to meet electrical requirement.
- Circuit was engineered and designed upon Multisim software for voltage gain, quiescent current and input / output resistance.

**General-Purpose Processor: VHDL / Quartus II** 11/2020

- Constructed a general-purpose processor with the help of three different arithmetic logic units (ALU).
- Incorporated Latches, 4-16 Decoders and Moore/Finite State Machines (MSM/FSM), were all used in the creation of the ALU's and the results were all displayed in seven-segment displays (SSEG).

## Experience

**Dr. X Academy of Robotics and Coding** 04/2021 Present

### Robotics and Coding Instructor

- Instructing classes of 15-20 students on 2D/3D game making using Unity with both text-based coding (such as C# and Python) as well as mobile app development using App Inventor (primarily Android).
- Teaching a variety of robotics classes which included the use of many gyro, light and ultrasonic sensors, one of the topics included simulating Tesla's accident avoidance system.
- Increased the attendance of FTC as well as FLL robotics classes by 10% throughout the summer
- Educating a small class of 5-7 high school students on Java, including the basic principles of object-oriented programming, inheritance, encapsulation, abstraction and polymorphism.

**Soccer World Ryerson** 03/2021 - Present

### Graphic Designer

- Designing 2+ graphics per week, including weekly flyers for upcoming games as well as events and saw engagement rise on Instagram by over 20%.
- Created daily Instagram stories and weekly posts which saw our page rise from 20 followers to 100+ followers within the first 3 months.

**Ryerson Gujarati Association (RGA).** 09/2020 - Present

### Vice President of Technology

- Launched a fundraiser for the COVID-19 crisis in India and collaborated with Brock GSA and Laurier GSA to raise \$1400.
- Developed a fully functional website for the newly formed organization to plan and sell tickets to various online and in-person events, as well as promote upcoming events: [www.ryersonga.com](http://www.ryersonga.com).
- Since the launch of the site in 2019, we've seen an increase of over 50 new people visit our website per month on average.