

# Vedant Prajapati

SOFTWARE ENGINEER

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## Summary

Third year electrical and computer engineering student at the University of Toronto with experience in AGILE development. Seeking to apply my skill set to build applications optimized for performance, speed, and usability. Proficient in C++, Python, C and effective in communication and team skills.

## Education

### University of Toronto

Toronto, Canada

B.ASc. IN ELECTRICAL AND COMPUTER ENGINEERING

Sept. 2018 - Apr. 2022

- Minor in: AI and Business
- Courses: Algorithms and Data Structures, Programming Languages (Python), Databases, Statistics, Control Systems, Computer Fundamentals (C++), Programming Fundamentals (C), Computer Organization (C, Verilog, ARM), Operating Systems (C), Machine Learning

## Experience

### University of Toronto Hyperloop Team

Toronto, Ontario

ELECTRONICS ENGINEER

Sept. 2020 - Apr. 2021

- Researched, tested, and implemented electronics such as IMUs for use in the Canadian SpaceX Hyperloop Pod Competition
- Communicated within power systems and electronics division to reduce task completion time by 30 percent
- Saved time was allocated towards parts optimization and further electronics testing such as temperature analysis during runtime

### CDI Technologies

Markham, Ontario

COMPUTER HARDWARE TECHNICIAN, ONSITE TECHNICIAN

May 2019 - Aug. 2019

- Performed data destruction and managed information confidentiality of industry scale server systems with Linux scripting and Ontrack Data Destruction Software
- Worked as an onsite technician for TDSB to set up 1800 computer systems to support EQAO assessment for tests taken by 250,000 students
- Saved \$6000 by implementing new process roadmap to prevent damage of functional server systems

### VA Wood Geotechnical Engineers

Toronto, Ontario

GEOTECHNICAL ENGINEERING INTERN

Sept. 2016 - Aug. 2017

- Performed analysis of various concretes and soil foundations to determine structural stability of various structures in Toronto specializing in schools, with AutoCAD and Solidworks
- Worked alongside various professional engineers onsite to test foundation quality by sampling soil and concrete quality

## Projects

### ReShape

JOURNAL/AGENDA DESKTOP APPLICATION – C, WPF, .NET, XAML

Jan 2020 - Present

- Created user application with WPF graphical interface to organize goals and tasks
- Designed an automated SQL User Database to allow for multiple user access
- Utilized Google Calendar API to allow for Calendar access within application

### SimpleMaps

LOCATION MAPPING APPLICATION – C++

Jan. 2020 - Apr. 2020

- Produced Working Maps application with graphical interface to display points of interests
- Implemented Dijkstra's, Polygon Area, and Greedy pathing Algorithms to generate optimized directions functionality

### IEEE Newhacks Coding Competition

SMART TRASH – ARDUINO

Jan. 2020 - Apr. 2020

- Designed trash collection system which provides location and capacity to optimise cleaning time
- Used Arduino and Photon microprocessors with sensors to transmit data to the server

## Leadership Experience

### Engineering Strategies and Practices

Toronto, Ontario

COMMUNICATIONS MANAGER - NUCLEAR CHEMICAL PROCESSING TEAM

Jan. 2019 - Apr. 2019

- Designed chemical processing method of Mo-99 from nuclear reactor to be used in medical imaging
- Proposed various marketing and network activities to raise awareness.
- Process is expected to be over 35 percent more effective than current nuclear waste harvesting method of Mo-99

COMMUNICATIONS MANAGER - TANVAS HAPTIC TOUCH SYSTEM

Sept. 2018 - Dec. 2018

- Created Conceptual Design Specifications to implement Tanvas haptic touch feedback to assist the legally blind
- Designed a haptic touch response calendar app to allow visually impaired users to create, read and organize their tasks