Rutvik Sheth
Computer Engineering Student

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EDUCATION

Bachelors of Computer Engineering
McMaster University

09/2017 – 04/2021

- Data Structures, Algorithm and Discrete Math in Java
- Microprocessor, and Electromagnetism
- Logic Design: Combinational and Sequential circuits, Quartus II.
- Electrical Circuits: Designing circuits using OrCAD software

SKILLS

C/C++ Java Python OpenCV Linux Git

Excel/Word/PPT Raspberry Pi Arduino Assembly

HTML CSS Esduino uC Bootstrap Soldering

Autodesk Inventor Solidworks MATLAB

EXPERIENCE

Co-Founder & Integration Lead
McMaster Hyperloop Team

01/2019 – Present

- Successfully contacted two professors to become a part of our team
- Selected 30+ undergraduate/graduate students via interviews
- Researching linear Induction Motors, CAN and Kalman Filters

Rocket Structure Designer
McMaster University Rocketry Team

06/2018 – Present   *Hamilton, Ontario*

- Documented design-analysis of launch-rails for Sounding Rocket
- Led selection of rocket's nosecone via hand-computation/simulation
- Modeled rocket air-frame & nosecone on AutoDesk Inventor

Cooling System Designer
McMaster University Formula Electric

11/2017 – 04/2018   *Hamilton, Canada*

- Modelled case for electromechanical sensor with SolidWorks
- Installed Formula Car parts (e.g. brakes) using Workshop Machinery
- Designed sensitive components (e.g. radiator, pump brackets)

Engineering Lead
FIRST Robotics - J. Clarke Richardson Collegiate

09/2015 – 06/2017   *Ajax, Canada*

- Led school robotics team (#5076) to become a finalist in district level competition at Victoria Park event.
- Developed excellent communication skills by independently securing Lear Corporation sponsorship of $3000 and mentorship
- Improved leadership and problem-solving skills by leading the Mechanical team of 3
- Refined my attention to detail by controlling the robot and delivered game-winning performance in the arena

PROJECTS (FOUND ON GITHUB)

Delta Draw for DeltaHacks V (Jan 2019)
- A mechanized artist robot that draws any image you import (JPG) with a marker on a white board in under 40 minutes.
- Used FLASK for testing and developing a local server
- Designed a local tunneling system through NGROK for file transfer
- Tested the viability of a piece of code used to extract etch-a-sketch coordinates through IMAGE PROCESSING

Enhancing Face Identification using DLSR Camera (Dec 2018)
- Establish a connection between Unix system to acess DSLR features. Currently exploring ways to display live feed from DSLR to Unix.

Tweet Sentiment (Dec 2018)
- Created a small program that asks the users to enter a word, which then return most return tweets off of Twitter along with its sentiment and factual value.

Web Scraper for StarterHacks (Jan 2019) (01/2018 – 01/2018)
- Automated data-extraction (Python Script) of a Student University Account

Face Identification (GitHub) (09/2018 – 10/2018)
- Used OpenCV, Numpy & PIL to write a facial identification program

ACHIEVEMENTS

3rd Place : DeltaHacks V (Jan 2019)
Awarded at McMaster University's annual hackathon with 160 teams