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
- Logic Design: Combinational and Sequential circuits, Quartus II.
- Microprocessor, and Electromagnetism
- Electrical Circuits: Designing circuits using OrCAD software

PROFESSIONAL EXPERIENCE

Co-Founder of McMaster Hyperloop Team
McMaster University

01/2019 – Present

- Successfully contacted and welcomed two professors to become a part of our team.
- Recruited 25 students from undergraduate and graduate school, through applications and interview process.
- Researching Linear Induction Motor and its integration with software.

McMaster Rocketry Team
McMaster University

06/2018 – Present *Hamilton, Ontario*

- Researched various types of launch rails for our Sounding Rocket independently.
- Analyzed and selected best nosecone for a rocket reaching speeds of Mach 0.7 to Mach 1.4. Von Karman Ogive was inputted.
- Designed the rocket's air-frame, nosecone on AutoDesk Inventor 2018

Mentor/Judge
Mathstronauts - McMaster

01/2018 – 01/2018

- Mentored a team of 6 middle school students to educate the use of wind turbines.
- Explained various concepts and methods which helped them create a prototype with high efficiency.
- Latter evaluated several other teams to award the best prototype.

Robotics - First Robotics Competion
J. Clarke Richardson Collegiate

09/2015 – 06/2017 *Ajax, Canada*

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

I AM..

Self-Directed | Dedicated | Leader | Quick Learner | Curious | Responsible | Co-operative | Passionate | Adaptable | Enthusiastic | Creative | Organization

MY PROJECTS (FOUND ON GITHUB)

Enhancing Face Identification using DLSR Camera (11/2018 – Present)

- Using python library 'gphoto2' to establish connection between Unix system and DSLR features. Currently exploring ways to display live feed from DSLR to Unix.

deltaDraw - Major League Hackathon (deltaHacks) (01/2019 – 01/2019)

- Design an Etch a sketch white-board printer. Where user inputs any image through website hosted on Flash and ngrok, which then goes through image processing script and extracts contour coordinates. Image is printed. Created in a group of 4.

Web Scrapper - Major League Hackathon (Starterhacks) (01/2018 – 01/2018)

- Designed a script which allows me to login to my University portal and extract needed information

Face Identification (GitHub) (09/2018 – 10/2018)

- Learning OpenCV through facial identification program, as well as gaining experience working with cascades, pip, and pillow while keeping a thorough record of each milestone.

TECHNICAL SKILLS

C/Java/HTML/Python/Matlab

Pointers, Mathematical and vector Computation, Classes and Functions. BigIntegers, Singly and Doubly linked lists. Front-end web design.

Data Science & Machine Learning

Python sklearn, tweepy, textblob, lightfm,scipy. Python OpenCV.

Ubuntu

Python Gphotolib

Inventor 2017, 2018/ SolidWorks

Rocketry Team, Formula Electric

Lightwork Movie maker

Interested in movie editing

ACHIEVEMENTS

deltaHacks: 3rd prize and Forge Incubator sponsorship (01/2019 – 01/2019)

MY HOBBIES

Cricket | Pool | Books | Photography