# Shivam Saheb

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3rd Year Aerospace Engineering Student

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## SUMMARY OF QUALIFICATIONS

- Exceptional written and oral communication skills with a strong ability to prepare well written reports and deliver high quality presentations all while meeting fast-paced deadlines
- Enthusiastic and passionate individual who is able to work well collaboratively in teams or independently with ease
- Solid foundation in programming with Python, MATLAB from robotic system designs
- Experience in designing structures on CATIA and crafting composites using CNC Machines, 3D printing
- Proactive problem solver with who is good at thinking "outside the box"

## SKILLS

- Software Knowledge: CATIA, ANSYS, SolidWorks, AutoCAD, Excel, PowerPoint, Word,
- Programming Languages: C, Python, MATLAB, familiar with VBA
- Knowledge of reading and interpreting mechanical assembly drawings, and electrical schematics
- Experience in CFD and CAD tools and techniques from multiple projects, familiar with FEA
- Experience in crafting composite structures with CNC machines, 3D printing, and Laser Cutting
- Experience in creating Objective Trees, BOMs, PDRs, datasheets, and organizing and filing records

## EDUCATION

### Ryerson University — EXPECTED 2019

- Currently a third year student pursuing a 4 year Bachelor of Engineering – Aerospace Engineering (Space Stream)

## PROJECTS

### GUI Script Project undertaken in Ryerson Rocketry Club (RRC)

- Designed a GUI script using C and Python for record, analysis, and interpretation of data.
- Tested and developed code to display live information coming from an inflight rocket. Worked with Arduino and Raspberry Pi microcontrollers.

### Control Mechanism for Aircraft Flap

- Collaborated in a team to design a CAD model of a control mechanism for aircraft flap extension/retraction
- Prepared prototype designs, evaluated designs using a decision matrix, and decided upon a four-bar linkage with a slider mechanism

### Gearbox Redesign Project

- Used CATIA to design all component drawings for later use in prototype redesign
- Conducted stress tests on given frame and designed an efficient replacement by reducing material usage and unit cost while maintaining a given set of required parameters

### Glider and Wing Manufacturing Project

- Created a composite carbon fiber wing with the NACA M22 airfoil configuration
- Produced the optimal glider fuselage using a CNC machine

### Landing Gear Mechanism (Mechanism and Vibrations Final Project)

- Designed a simulation of the four bar linkage using DMU Kinematics on Catia V5
- Used MATLAB to calculate the displacement and velocity analysis of the mechanism

## WORK EXPERIENCE

### Metro Inc, Burlington, Ontario - Deli Worker/Cashier — 09/2013 – 02/2018

- Organized inventory shelves and cleaned food storage areas
- Took customers' orders in company's order fulfillment system
- Recorded money in cash register for accounting purposes