Shivam Saheb

Burlington, ON | 289-300-1430
shivamrsaheb@gmail.com
https://shivamrsaheb.github.io/
www.linkedin.com/in/shivamsaheb

3rd Year Aerospace Engineering Student

SUMMARY OF QUALIFICATIONS

- Solid foundation in programming with Python, and MATLAB from multiple robotic system design projects using robotic theory such as Inverse and Forward Kinematics
- Experience in simulations of four bar linkages with DMU Kinematics on CATIA V5
- Enthusiastic and passionate individual with over four years of demonstrated customer service experience in the retail industry
- Excellent 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

SKILLS

- Software Knowledge: Proficient in CATIA, SolidWorks, AutoCAD, Excel, PowerPoint, Word, ANSYS
- Programming: Proficient in C, Python, MATLAB, Intermediate with VBA, HTML, CSS
- 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

EDUCATION

Ryerson University — EXPECTED 2019

- Currently a third year student pursuing a 4 year Bachelor of Engineering – Aerospace Engineering (Space Stream)
- Related Courses: Space Robotics, Mechanisms and Vibrations, Intro. to Aerospace Engineering Design, Communication in the Engineering Professions, and Electric Machines and Electronics

PROJECTS

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

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

Closed Link Planar Manipulator Arm

- Designed a manipulator arm with a drawing instrument as the end effector. Used to draw three distinct images which were a quadrilateral, a triangle, and a plus sign
- 5-bar linkage system designed using the LEGO EV3 set and programmed on MATLAB to accept inputs which commanded the manipulator to execute joint motions

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

Control Mechanism for Aircraft Flap

- Collaborated in a team to design a CAD model of a control mechanism for aircraft flap extension/retraction

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