MISHRAN HAQUE

Brampton, ON (Willing to relocate) | mishran.haque@gmail.com | LinkedIn

EDUCATION

B.Eng. Aerospace Engineering, Minor in Computer Science

Toronto Metropolitan University (Formerly Ryerson University)

Sep 2018 - Exp. May 2023

Toronto, ON

 Relevant course work: Aerodynamics, Aerospace Structural Design, Avionics and Aircraft Systems, Thermodynamics, Fluid Mechanics, Digital Computation and Programming, Stress Analysis, Control Systems

SKILLS

Engineering Tools and Software	Progr	amming	Other
 CATIA V5 	Python	MATLAB	 Microsoft Excel
 SOLIDWORKS 	Java	UNIX	 Microsoft Project
 ANSYS (FEA and CFD) 	C/C++	JavaScript	 Microsoft PowerPoint
Arduino	 HTML/CSS 	■ Git	

RELEVANT EXPERIENCE

Project Management Intern | Canadian Space Agency (CSA)

Jan 2022 - Apr 2022 | Sep 2022 - Present

Longueuil, OC

- Led weekly team meetings as a project manager, to keep members up to date with the project and provide additional support to CSA engineers
- Collaborated with contractors, to communicate concerns regarding project schedule, risks, and requirements to ensure that the project management process is on par with the required Agency standards
- Contributed to key tasks throughout the early phases of the project including project scheduling, procurement processes, project evaluation, and various deliverable documents
- Created and submitted monthly project dashboards based on new changes and updates to provide an overview of the overall project health

Mechanical Engineering Intern | Canadian Space Agency (CSA)

May 2022 - Aug 2022

Longueuil, QC

- Developed a deformable wheel design using CATIA, for CSA's Rover Mission of the Lunar Exploration Accelerator Program (LEAP)
- Researched materials and strategies to improve upon each iteration of the developed wheel prototype and implemented appropriate changes
- Conceptualized a modular rover design with a supervisor to obtain a design patent for the development of a future rover project
- Collaborated with team members, private contractors, and NASA during technical meetings throughout the work term to understand the
 development of the technical aspects of a planetary exploration rover

Design Specialist | Ryerson Propulsion Group

Jun 2021 - Jan 2022

Toronto Metropolitan University, Toronto, ON

- Computed combustion and fluid flow simulations based on preliminary designs to help the team optimize the final engine design
- Researched various simulation methods and models for combustion simulations of the engine's combustion chamber
- Updated and educated team members on various simulation processes and shared progress during weekly meetings
- Lead CFD Simulations for the Combustion Dynamics sub-team

Avionics Sub-team Member | Ryerson Rocketry Club

Sep 2019 – Jan 2022

Toronto Metropolitan University, Toronto, ON

- Performed thermodynamic calculations and implemented thermal management strategies for the rocket's avionics bay to ensure that
 the electronics remain within suitable temperatures at altitudes of up to 30,000 feet
- Designed a portable ground station, to collect and display transmitted data from the rocket; researched and implemented suitable electronics such as Raspberry Pi, Display, Power Source, and Controllers
- Assisted in implementing a graphical user interface (using Python) into the ground station to display rocket data in real-time
- Collaborated with team members to prepare and present the rocket design to Spaceport America judges

$\label{lem:condition} \textbf{Vice President Education} \mid \textbf{Ryerson Aerospace Course Union}$

May 2020 - May 2021

Toronto Metropolitan University, Toronto, ON

- Scheduled, planned, and hosted multiple academic events, including information sessions, tutorials, exam preps, and workshops
- Advocated on behalf of students and directed them to academic resources when appropriate
- Resolved student inquiries through social media, emails, or direct messages
- Cooperated with team members weekly to discuss ideas and implement strategies to help enhance the university experience for students in the program