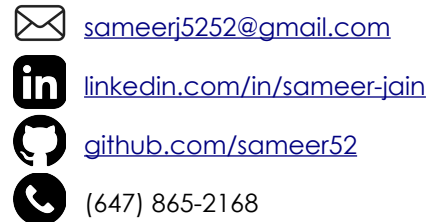


Sameer Jain

Senior Honours Mechanical Engineering Student
Ontario Tech University



Skills

CAD/CAM: SolidWorks (FEM, CFD, Assemblies), Siemens NX, GD&T, Additive and Subtractive Manufacturing,

Electrical: PCB Design, Embedded Systems (Arduino, Raspberry Pi), Control Systems

Software: Python, JAVA, MatLab, Windows OS, Linux OS, Mac OS, MS Office Suite

Soft Skills: Technical documentation and reporting, leading collaborative brainstorming to develop innovative solutions with technical and non-technical teams

Experience

IT Automation Intern | Ontario Public Service | Toronto, ON | May 2024 – present

- Developed and maintained web test automation scripts using Java and Selenium to ensure robust and efficient testing processes.
- Designed and implemented a custom Java program from scratch for internal use, streamlining data validation during a major server migration.
- Skills:** Web Automation, Project Management, Technical Documentation

Materials Engineering Intern | Collins Aerospace | Oakville, ON | June 2022 – Aug 2022

- Responsible for evaluating and dis-positioning non-conforming Landing Gear materials and components in production on military and commercial programs
 - Projects included Boeing C17, Lockheed Martin F-35, Bombardier CRJ900
- Conducted thorough root cause analysis and implemented corrective actions
- Skills:** Material and Manufacturing Assessment for aircraft critical components

Project Assistant | The STEAM Project | Richmond Hill, ON | July 2020 - Aug 2020

- Operated and maintained advanced rapid prototyping equipment, ensuring optimal performance and minimizing downtime.
- Instructed students on how to use design and prototyping software, enhancing their technical skills and project outcomes.
- Collaborated with a colleague to design a solution for preventing filament spools from catching and breaking during 3D printing. My design was selected for manufacturing and successfully implemented, improving the efficiency and reliability of the 3D printing process.
- Skills:** Teamwork, collaboration

Projects

Full Custom ITX Computer Case | March 2024

- Researched, designed, and assembled a fully customized ITX Small Form Factor computer case to upgrade an older system, enhancing portability and space efficiency
- Applied principles of design for manufacturing to streamline production and assembly processes
- Skills:** Innovation, Design for manufacturing, SolidWorks assemblies, Basic laser cutter operation

3D Printed Arduino-Powered Floor Cleaning Robot | July 2023

- Designed and engineered a 3D-printed floor cleaning robot intended to be powered by Arduino
- Utilized SolidWorks to create intricate assemblies and ensure precise fit and function of components.
- Skills:** Design for manufacturing, SolidWorks assemblies, Additive Manufacturing

Education

Ontario Tech University | Sep 2020 – present
Candidate for Bachelor of Engineering (BEng)
Honours Mechanical Engineering

Academic Coursework

Control Systems

Mechanical Vibrations

Electro-mechanical Energy Conversion