Zifan Si

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EDUCATION

B.Eng | Software Engineering (Co-op)
McMaster University | Hamilton, Ontario (Expected) **2021 – 2025**

- Achieved a GPA of **3.9/4.0** as well as the **Dean's Excellence Award**

Relevant Courses:

- Object-Oriented Programming
- Software Engineering Practice and Experience: Development Basics
- Introduction to Software Development
- Data Structures and Algorithms
- Computer Architecture
- Discrete Mathematics with Applications
- Digital Systems and Interfacing

SKILLS

- **Languages:** Java, C/C++, Python, HTML/CSS, Verilog, MATLAB
- **Tools:** Vim, Make, Linux, Git, Bash, GitHub, Autodesk Inventor, Microsoft Office

PROJECTS

Autoclave Sorting Program | ENGINEER 1P13, McMaster University | zifansi.github.io/projects/p2 **Oct 2021**

- Developed a program to control movement of a robotic arm and opening/closing of its gripper
- Sorted 6 sterilization autoclave locations using **Python** and **Raspberry Pi**
- Achieved a success rate of 100% in accurately sorting containers

Hopper Dispensing Mechanism | ENGINEER 1P13, McMaster University | zifansi.github.io/projects/p3 **Jan 2022**

- Created 4+ unique designs of possible mechanism to operate a recycling dispenser
- Prepared G-code for **3D printing** to test prototypes and discover area for improvement
- Confirmed accuracy of 3D model in **Autodesk Inventor** to professionally document design

Personal Website | zifansi.github.io **Jul 2022**

- Built a static website to present vanilla **Java** games, small tools, tech blogs
- Used **Git** to deploy the website

HIGHLIGHTS OF QUALIFICATIONS

- Enrolled in level 2 of the 4-year Software Engineering Co-op program
- Strengthened analytical and problem-solving abilities to identify problems and implement corrective solutions using fundamental engineering techniques acquired through course and project work
- Displayed strong time management and organizational skills through participation in hackathons