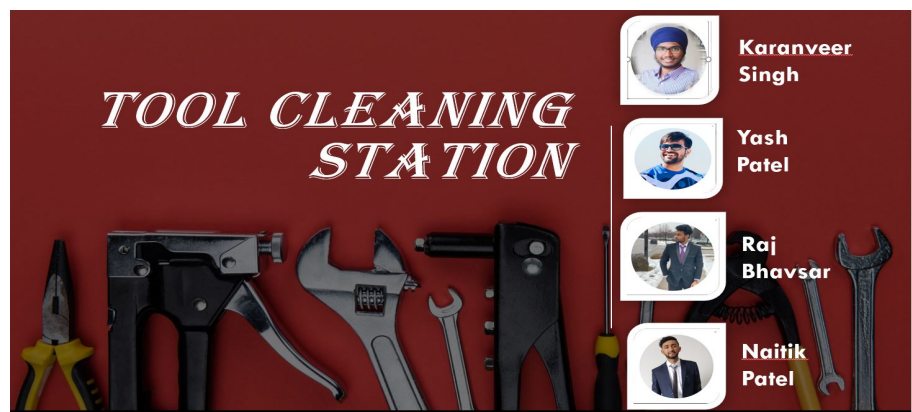


# Project Name: Automated Tool Cleaning Station

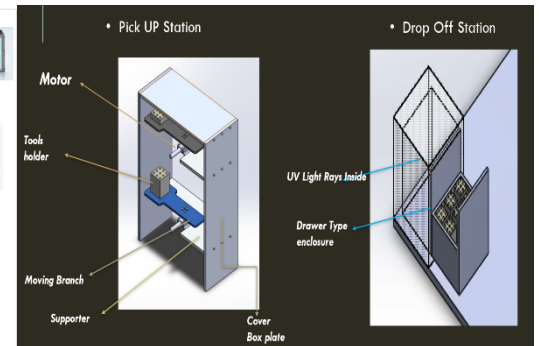
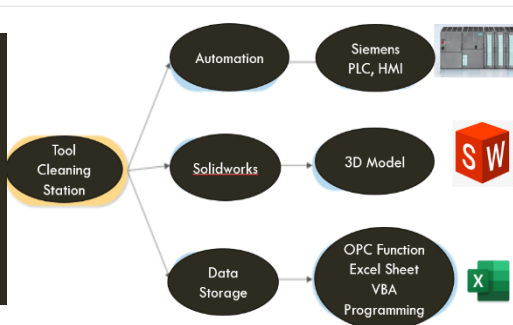
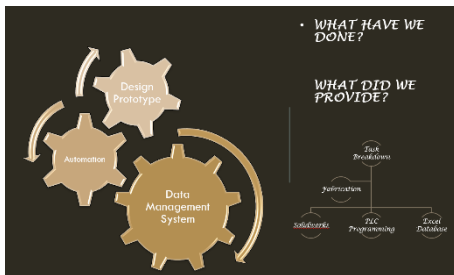
Partner: “Sheridan”

Professor Involved:

Andy Alubaidy



Project Pictures:



YouTube Link: <https://youtu.be/-nSQJ90G8L0>

## Project Background and Description

Final year engineering technologist program students of Sheridan College have to work on Capstone project which helps them to showcase their talent and learning outcomes during their entire course. For this purpose, our team comprising four members was formed. We wanted to build something that **makes a difference** in the world and could potential **resolve actual real-life problem**. So, we were assigned “**Tool Cleaning Station**” project. As the name of project explains, we had to create a system to clean dirty tools. This was a perfect project what we wanted to do especially when in this COVID time world is in need of solution to these kinds of problems. Our motive was to successfully provide solution to this problem within 11 weeks.

## Project Scope

Goal of the project was to provide a solution to the given problem described in the description above. Our team decided to take this project to next level and provide a whole system capable of not just cleaning the tools but to bring some **automation** in it so that the process could be done with minimal human intervention, provide a **3D model** and a system to **manage the data automatically**. The outcomes of this project can be applied to things where we need minimal human intervention to make transactions of things (kind of automatic vending systems) and keep records, log data, create databases automatically.

## Deliverables

- 3D Model of Prototype Design
- Automation Programming
- Data Management System