Pawandeep Singh Saini

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Skills

Computer Aided Design: AutoCAD | SolidWorks | Autodesk Inventor
Software skills: Microsoft Word | PowerPoint | Excel | Projects | Outlook | Google applications | Windows | Mac OS
Technical Software's: RSLogix5000 (PLC programming) | MATLAB & Simulink | Minitab | Modeling and Simulation of systems
Coding: C++ | Visual Basic.Net | some Python | HTML | MYSQL
Languages: English | Punjabi | Hindi | German (B2)

Work Experience

Technical Assistant **December 2018 – Aug. 2019**
Sai-Tech Industries FZCO, Dubai, UAE

- Worked with the Quality Control team to ensure products leaving the facility are of upmost standards and specification, either using AutoCAD or physical inspection
- Worked with Safety team at the company to make sure company policies on cleanliness, workmanship and safety precautions are adhered to
- Worked with company accountant during Audit, to balance the books and input all valid data into the company's ERP system
- Helped in sourcing certain equipment and machine parts when required

Junior Engineering Intern **May 2018– July 2018**
Sai-Tech Industries FZCO, Dubai, UAE

- Developed complex CAD drawings of jobs being manufactured at the site
- Coordinated and communicated with senior management and workers to make sure all projects are on track
- Added countless Invoices and Quotations in the company's ERP system

Personal Projects

Autonomous Guided Vehicle (Capstone) **January 2020-Present**

- Currently working on creating an AGV that can navigate inside a building from workstation to workstation, to acquire equipment that the operator requires.
- Goal is to create an AGV that can help operator do their job more efficiently while reducing downtime to acquire equipment from different parts of a facility

MacChangers Transportation Project **September 2017-May 2020**

- Researched and found perfect parts for the prototype to work
- Worked on a prototype to improve Hamilton's transportation system
    - This prototype consisted of an Arduino, sensors, photoresistors and LED's working together to produce light when someone moves in front of it
- Edited and made draft for our section in the 20119/2020 MacChangers Report

Automatic Parking Lot (Group of 2) **October 2018–November 2018**

- Creating a fully automatic and manual if required, demo system which senses a car at a designated spot using ultrasonic sensors, an arm constructed of 2 linear actuators and a servo motor picks the car up and places the car in a vacant spot in a garage

Education

Bachelor of Technology, Automation Engineering Technology **September 2016-Present**
McMaster University, Hamilton, ON Expected Completion December 2020

- Currently in level **4B** of an integrated 4.5-year engineering-management combined **Degree-Diploma** program through McMaster University and Mohawk College
- The business-management curriculum has dual accreditation, globally with the accreditation council of Business Schools and Programs, nationally with the Canadian Institute of Management
- Achieve **Bachelor of Technology Degree**, **Chemical Engineering Technology Advanced Diploma** and **Business Management Certificate** upon completion