**Sneh Patel**

(548) 577 – 1304 \* [snehp1304@gmail.com](mailto:snehp1304@gmail.com)

**EDUCATION**

***Electro – Mechanical Engineering Technician Robotics Expected: Apr 2024***

**St. Clair College, Windsor, ON, Canada *GPA: 2.93***

* **Selected Coursework**: C# Programming, Industrial Robotics I & II & III, Fluid Power & Hydraulics, C Programming, Quality Processes for Manufacturing, Robotic Vision Systems, Industrial Project Management, Welding Materials for Robotics, Electrical Prints and Troubleshooting

***Bachelor of Engineering, Mechanical Engineering Graduated: Jun 2020***

**Gujarat Technological University, Ahmedabad, India C*GPA: 7.13***

* **Selected Coursework**: Engineering Thermodynamics, Manufacturing Process, Engineering Economics and Management, Complex Variables and Numerical Methods, Machine Design & Industrial Drafting, Control Engineering, Computer Aided Design and Manufacturing, Operation Research, Machine Design, Metal Forming Analysis, Entrepreneurship

**SKILLS**

* **Computer Aided Design:** SolidWorks, Automation Studio, AutoCAD 2D & 3D
* **Vision Systems:** Cognex (Pick-it 3D, ABB Integrated Vision System, Fanus Integrated Vision System), Robot Studio
* **PLC:** LogixPro 500 PLC Simulator, Studio 500 Design, Allen Bradley – RS Logix 500, ABB, Mitsubishi
* **Hands-On:** Industrial Robotic Washing, Welding, Sealing, Joining, Inspection, Material
  + - * **Programming Languages:**  C, C#
* **Tools:** Excel, Outlook, PowerPoint, Word, Visual Studio, Visual Studio Code

**RELEVANT WORK EXPERIENCE**

***Junior Mechanical Engineer Dec 2020 – Nov 2022***

**NH Engineering, Anand, India**

* Utilized Computer Aided Design and Manufacturing software to configure and program CNC milling machines using Fanuc and Mazak controllers in 3 axes, following the specifications and blueprints of various mechanical parts and components.
* Applied various cutting tools such as drill bit, end mill, face mill, reamer, and tread mill to produce precise holes, contours, threads, and finishes on metal workpieces.
* Conducted constant checking and verification on parts machined and adjusted offsets to meet and maintain quality requirements.
* Performed MIG and TIG welding on various metal parts and components, following the welding diagrams and symbols provided by engineers and designers.
* Analyzed machining processes to identify opportunities for improvements in cycle time, tool utilization, material utilization, and overall productivity.

**PROJECTS**

**Automatic Part Sorting Line Using Vision System**

* Designed and implemented a PLC-based system for automatic part sorting using Cognex vision camera and FactoryTalk IO.
* Established Ethernet communication between PLC and FactoryTalk IO for monitoring the sorting process and criteria.
* Utilized Analog i/o, Digital i/o, and Mathematical instruction in ladder logic programming with RS Logix 500.
* Ensured safety, reliability, and efficiency of the conveyor belt and the coupling mechanism for packaging.

**CERTIFICATIONS**

* Become a PLC Developer: LinkedIn Learning