

DARSHAN SATISH BHARAMBE

**Mechatronics Engineer**

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# OBJECTIVE

Seeking a responsible and challenging position with a turbulent and dynamic organization that offers opportunities for personal and professional development and where I can best utilize my knowledge and skills.

# PROFESSIONAL SUMMARY

Mechatronics Engineer with 2 years of experience in engineering design and implementation, including 2D drafting, 3D design, equipment selection, sizing, assembly, equipment test design, and execution. Highly adept in using Solid works, and Unigraphics NX (Surface Modeling, Assemblies, Drafting).

# SKILLS

* Knowledgeable in technical and engineering work
* Excellent communication skills
* Proficiency in computer applications related to work
* Good team player
* Knowledgeable in mechatronics systems, hydraulic and pneumatic system
* Knowledge in CAD software, PLC Programming

# SOFTWARE SKILLS

* **Computer-Aided Design Software’s: -** Solid Works, AutoCAD
* **Programmable Logical Controller Software’s: -** Allen Bradley, Siemens, Delta, Mitsubishi
* **Supervisory Control and Data Acquisition Software’s: -** Factory Talk View, Win CC
* **Human Machine Interface Software’s: -** CCW, TIA

# AREA OF INTEREST

* Design and Development
* Mechatronics Systems
* Industrial Automation
* Robotic Systems

# WORK EXPERIENCE

**Company Name: -** MAGNAKRAFT AUTOMATION SYSTEMS, PUNE

**Post: -** Mechanical Design Engineer

**Duration: -** Aug 2017 to July 2019

**Company Profile: -** MagnaKraft Automation Systems is a design and manufacturing company for pneumatic based equipment that provides automation solutions. It is a leading manufacturer of special purpose machine (SPM), vision system, control panel, automation system and spray cooler.

# KEY RESPONSIBILITIES

* Efficiently created 3D models of various components for special purpose machines with the help of Solid works.
* Created various 3D models of sheet metal products.
* Preparation of 2D drawing for the fabrication process.
* Monitoring and coordinating allotment of fabrication work as per the specified drawings.
* Responsible for reports on a regular basis for the project manager.
* Assigned with the responsibility for solving problems during the manufacturing of the machine.
* Responsible for the making bill of material as per the design of the special purpose machine.

# KEY PROJECT UNDERTAKEN

1. **Project Name: -** Surface Mount Device Placement Machine for LEDs Assembly on Printed Circuit Board

* **Description: -** Surface mount device (SMD) placement machine is one type of pick and place machine, which is used to pick up the electronic components from the component feed and place onto the printed circuit board (PCB) according to given instruction by the controller.

1. **Project Name: -** Leak Testing Machine

* **Description: -** Leak Testing Machine is specially designed for leak testing of a particular component. There are three basic function of Leak Testing Machine are detection of leakage, measurement of leak rate, and leakage location. Air or Dry Testing method is used for the testing any enclosed component.

1. **Project Name: -** Split Loom Joining and Tape Winding Machine

* **Description: -** To design and manufacturing an SPM machine for joining split loom on automobile fuel pipe, after that plastic tap is taping on the ends of the split loom.

1. **Project Name: -** Media Roll Tilting Machine

* **Description: -** The project was a design and manufacturing a machine, which is used to tilt a media roll from vertical to a horizontal direction.

# EDUCATIONAL QUALIFICATIONS

1. Masters of Engineering in Mechatronics Engineering 2018

Sinhgad College of Engineering, Pune

7.76 GPA

1. Bachelor of Technology in Mechatronics Engineering 2016

U. V. Patel College of Engineering, Mehsana

5.8 CGPA

1. Diploma in Mechatronics Engineering 2013

B. S. Patel Polytechnic, Mehsana

7.45 CGPA

1. S.S.C. 2010

Sardar Patel and Swami Vivekanand High School, Ahmedabad

63 Percent

# ACADEMIC PROJECTS

1. **Project Name: -** Surface Mount Device Placement Machine for LEDs Assembly on Printed Circuit Board

* **Description: -** Surface mount device (SMD) placement machine is one type of pick and place machine, which is used to pick up the electronic components from the component feed and place onto the printed circuit board (PCB) according to given instruction by the controller.

1. **Project Name: -** Solar Panel Cleaning System

* **Description: -** The developed project includes the design and implementation of a microcontroller-based dust cleaning system. The main aim of the project is providing an automatic dust cleaning mechanism for a solar panel.

1. **Project Name: -** Design and Development of Automatic Bottle Filling Machine

* **Description: -** To reduce cost for small scale industries and help them in setting up automated plants. The aim of the project is to study the industrial process as carried out by a PLC, comparison between PLC and Arduino and then design a automatic bottle filling system.

1. **Project Name: -** Design and Development of Chip removal System in CNC Machine

* **Description: -** This project is used to design and manufacture systems in a CNC machine to recycle coolant used while machining.

# ACADEMIC SEMINAR

* Gave seminar on “Programmable logical controller-based surface mount device placement machine for LED’s assembly on printed circuit board”.
* Gave seminar on “Role of the programmable logic controller and ZigBee in agriculture automation”.

# CONFERENCE

* Forth post-graduation conference of mechanical engineering (MECHPGCON) on “Surface mount device placement machine for LED’s assembly on printed circuit board”.

# CERTIFICATION COURSE

**Course Name: -** Automation Comprehensive Course

**Institute Name: -** Just Engineering, Pune

**Duration: -** Aug 2019 to Nov 2019

**Description: -** This course is based on industrial automation. To learn about basic automation, programmable logical controller (PLC) software, SCADA software, HMI software, VFD controller, and control hardware design.

# PERSONAL DETAILS

**Birthday: -** 06th Jan 1995

**Marital Status: -** Single

**Nationality: -** Indian

**Language known: -** English, Hindi, Marathi, Gujarati

**Address: -** Flat no. 1203, Sector 7C, Gomati Building, Mhada Colony, Near SNBP International School, Morewadi, Pimpri, Pune 411018

# DECLARATION

I hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.

Date:

Place: Your Sincerely,