

# NISHIT PARMAR

## Electrical Engineer

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### PROFILE SUMMARY

Energize your team with a passionate and innovative Electrical Engineering graduate ready to make an electrifying impact from day one. Equipped with a strong foundation in electrical systems design, troubleshooting, and optimization, I bring a fresh perspective and a hunger for learning to every project. With a spark for innovation and a commitment to excellence, I am eager to contribute my skills and enthusiasm to drive transformative solutions in the dynamic field of electrical engineering. Harness the power of a dedicated and adaptable professional ready to illuminate the future of electrical engineering.

### EDUCATION

#### Diploma in Electrical Engineering from C.U. Shah Polytechnic 2015-2018

Board: Gujarat Technological University  
CGPA: 7.11

#### Bachelors in Electrical Engineering from Gandhinagar Institute of Technology 2019-2022

Board: Gujarat Technological University  
CGPA: 7.58

### SUMMER INTERNSHIP

#### Industrial Automation Training at Sofcon India Pvt Ltd Ahmedabad Feb 2023 to May 2023

- **PLC:** Basic of PLC, developing program using **RSLogix 500** on Allen Bradley PLC - **MicroLogix & SLC series**. Program development with **Simatic Manager** on Siemens PLC (**S7-300 Series**), **Eco machine expert** on **Schneider PLC M200**, control philosophy, Interlocking & I/O list.
- **SCADA:** Application development on **Wonderware - InTouch and Schneider - Vijeo designer**.
- **Process Instrumentation:** Temperature, Pressure, Level, Flow and Proximity sensors.
- **DCS:** Introduction to DCS system. Hardware: processor, I/O modules, communications and practice on **ABB FREELANCE (AC 700 F) DCS system**.
- **Motor/ Drive:** Induction Motors. Basic of Variable Frequency Drives, selection criteria of drive for project engineering, interfacing of drive with PLC, networking of drive, programming practice on Allen Bradley-**Powerflex 4 AC Drive**. Schneider AC Drive, Siemens drive also.
- **HMI:** Basics of HMI, Creating applications with HMI & interfacing with PLC.
- **Panel Designing:** Read the Panel Drawing, Selection of switch gears & accessories, control & power drawings. DOL, Star Delta Starter of 3 phase Motor Control Circuit & Power Circuit Wiring.
- **Industrial Networking: Modbus** (communication between AB ML1400 PLC and Powerflex4 Drive and communication between AB ML1400 PLC using Modbus protocol), **Profibus** (ABB AC 700 F) DCS system with remote I/O using Profibus protocol), **Industrial Ethernet, RS485**.
- **AutoCAD:** - 2D drawing with edits and draw and modify command.

## **WORK EXPERIENCE**

### **DUDHAT INDUSTRIES PVT LTD**

#### **Quality Engineer**

**July 2022- October 2022**

- Develop and implement comprehensive quality control processes and procedures for LED manufacturing.
- Conduct visual inspections and utilize specialized equipment for precise testing and measurements.
- Analyze quality data to identify trends and areas for process improvement.
- Develop and maintain quality documentation, including SOPs and inspection plans.
- Ensure compliance with industry standards and regulatory requirements through audits.

## **INTERNSHIP**

### **J.R. INDUSTRIES**

**Jan 2022- April 2022**

- Support supervisor in overseeing operations and meeting production targets.
- Assist in managing and coordinating the production team.
- Monitor and improve production process efficiency.
- Ensure adherence to quality control standards.
- Promote safety guidelines and compliance.
- Assist in inventory management.
- Maintain accurate production records and prepare reports.
- Facilitate communication and coordination between departments.

## **PROJECT**

### **Automatic Street Light Using IoT**

**Node MCU Esp8266 | LDR sensor | ESP8266 (WIFI Module)**

- Internet of Things-based Automatic Street lighting system that turns lights on and off based on the amount of sunlight.
- Tremendous help for smart cities that use a lot of energy to power their regular streetlights. The information was sent to the cloud to be stored and looked at later.

## **TECHNICAL SKILLS**

PLC - Allen Bradley, Siemens, Schneider Electric

SCADA - Wonderware, WinCC

HMI - PanelView 300 Micro, WinCC, FactoryTalkView

Industrial Networking - Modbus, Profibus, Ethernet/IP, DeviceNet

Industrial Control Systems - Control loops, PID tuning, process optimization

Electrical Panel Design - AutoCAD, electrical codes and standards

Instrumentation and Control - Sensors, transmitters, control valves

Troubleshooting and Maintenance - Electrical and automation systems

## **SKILLS**

- Documentation
- Critical Thinking
- Conflict Management
- Planning and Forecasting
- Scheduling & Time Management