

## **BHADRESH SARVAIYA**

**B.E. Instrumentation and Control Engineering**

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### **OBJECTIVE**

Want to be a part of a corporate environment that promote Team Effort and treat its' members as an asset. Looking forward to career advancement, with an increase in knowledge base, while making a significant contribution to the Organization.

### **EDUCATION**

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**BE (Instrumentation and Control Engineering)** from **Dharmsinh Desai University, Nadiad, Gujarat** with **First Class and Distinction** in **May-2012**.

### **PROFESSIONAL EXPERIENCE**

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- **5.5** Years of experience in Automation Project execution in textile, Water, Pharma, Steel, Solar and services
- Programming and troubleshooting of PLC, SCADA and HMI application
- Customer handling activity like KOM, ISO Documentation, FAT, Erection and Commissioning
- **PLC Programming:** Schneider PLC (M340)
- **RTU Programming:** Schneider SCADAPack 330E with DNPr Protocol, Modicon Momentum PLC(171 CCC 980 30-IEC)
- **PAC Programming :** Opto22 (SNAP-PACK-R2-W)
- **SCADA:** Schneider Electric (Vijeo Citect and CitectSCADA), Wonderware (InTouch + System Architecture)
- Designing of 21CFR part 11 compliance SCADA for Pharma Industries
- **HMI Programming:** Schneider, Delta, Kinco
- **BCPM** System for EMS
- **Reporting Software:** Vijeo Historian, MS-Excel
- **Database:** MS SQL Server, MS-Access, MySQL, MS-Excel
- **Programming Language:** Ladder, FBD, SFC, ST
- **Industrial Protocol:** Modbus, Modbus TCP/IP, OPC, DNPr, IEC-104, IEC-61850
- **Integrated Development Environment:** Visual Studio 2010, Visual Studio 2008, Visual Studio 2005

### **WORK EXPERIENCE**

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**Company :** Masibus Automation and Instrumentation Pvt Ltd., Gandhinagar, Gujarat  
**Designation :** Sr. Project Engineer  
**Duration :** Jan-2015 to till now  
**Job Profile :**

- Designing and Development of Control and Automation System
- Development of SCADA solution and customized report based on MS-Excel or SQL Reporting Services
- Technical Support to Sales and Marketing team
- Erection and Installation & Commissioning of Control System

**Volunteer Service :** Swaminarayan Akshardham, New Delhi  
**Designation :** Automation Engineer  
**Duration :** Sep-2012 to Oct-2014  
**Profile :**

- Maintenance of existing Automation Control System
- Designing and Development of Control system for Water, AHUs, Irrigation, EMS, BMS
- Development of Technical documents, logic, SCADA/HMI and Reports based on Ms-Excel and SQL Server Reporting Services
- Design PLC based Automation system for "Sahaj Anand Water Show"

## KEY PROJECTS

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### 1. Rockwell Industries Limited, Hyderabad, Telangana

**Application:** Refrigerator Testing System

Main Hardware: Wireless Opto22 PAC (SNAP PACK R2-W)

SCADA: Vijeo Citect V7.4

Reporting Tool: Vijeo Historian V4.5

Protocol: Modbus TCP/IP, Modbus

Rolls and

- Responsibility:
- Installation and Commissioning of Refrigerator Testing system
  - Programming of PAC and Designing and Development of SCADA and Reports
  - Design database for Temperature, Power, Serial Number and result of testing and development of report in Visual studio
  - Preparation of document for dos and don'ts and Operational Manual of System

### 2. SRF Limited, Gwalior & Manali & Gummidipundi

**Project 1:** Middleware System

SCADA: Vijeo Citect V7.3

Reporting Tool: Vijeo Historian V4.4

Protocol: OPC, Modnet

Rolls and

- Responsibility:
- Maintenance of Installed Middleware System by Masibus
  - Service and Support of Middleware System

**Project 2:** CC4 SCADA

SCADA: Vijeo Citect V7.5

Reporting Tool: Vijeo Historian V4.4

Protocol: DDE

Rolls and

- Responsibility:
- Installation and Commissioning of Data Monitoring System
  - Design of SCADA and Managing Database for CC4 Data
  - Design Server-Client system
  - Report Designing

### 2. Torrent Pharmaceutical Ltd, Indrad, Mehsana, Gujarat

**Project 1:** Pressure Monitoring System (PMS)

Main Hardware: SCADAPack RTU 330E

SCADA: Vijeo Citect V7.4

Reporting Tool: Vijeo Historian V4.5

Protocol: Dnpr, Modbus

Rolls and

- Responsibility:
- Installation and Commissioning of Differential Pressure Monitoring System
  - Programming of SCADAPack RTU for communication on DNPr protocol and Designing and Development of 21 CFR compliance SCADA with reports
  - Design centralized database for Differential Pressure, Trend, Alarm and Audit report
  - Design Server-Client system
  - Preparation of Documents like IQ, OQ, PQ

**Project 2:** Data Acquisition System (DAS)

Main Hardware: SCADAPack RTU 330E

SCADA: Vijeo Citect V7.4

Protocol: Dnpr, Modbus

Rolls and

- Responsibility:
- Erection and Installation and Commissioning of DAS for Reactors and Dryers
  - Programming of SCADAPack RTU for communication on DNPr protocol and Design and Development of 21 CFR compliance SCADA with reports
  - Design centralized database for Temp., RPM, Pressure, ON/OFF status, Trend and Audit report
  - Preparation of documents like IQ and OQ

**Project 3: Energy Monitoring System (EMS)**  
SCADA: Vijeo Citect V7.4  
Protocol: Modbus  
Rolls and Responsibility:

- Commissioning of EMS
- Design of SCADA and Managing Database for EMS data
- Development of Reports like Daily, Shift wise, Monthly date wise and Meter wise using Visual Studio

### 3. IISCO , Burnpur, Kolkata & BSP, Bhilai & VSP, Vishakhapatnam

**Application: Energy Monitoring Centre**  
SCADA: CitectSCADA  
Reporting Tool: Vijeo Historian  
Protocol: OPC, Modbus, Modnet  
Rolls:

- Commissioning of EMC system
- Establish communication between OPC server with CitectSCADA through DCOM setting
- Manage database and preparing report as per URS
- Redundant IO and report server system

### 4. Swaminarayan Akshardham, New Delhi

**Application: Sahaj Anand Water Show Monitoring and Control System**  
SCADA: Vijeo Citect V7.4  
Reporting Tool: MS-Excel  
Protocol: Modbus, Modbus TCP/IP  
Rolls and Responsibility:

- Design and Installation and Commissioning of Sahaj Anand Water Show monitoring and control system
- Establish 300+ VFDs' Communication with SCADA
- Control system for temperature and Fire
- Daily and Monthly report

## SKILLS

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- Team Player
- Hard Working
- Self Learning skill

## PERSONAL PROFILE

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Date Of Birth : 1<sup>st</sup> April, 1990  
Nationality : Indian  
Marital Status : Married  
Language Known : English, Hindi, Gujarati  
Passport : Yes

## DECLARATION

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I hereby declare that the above mention information is correct up to my knowledge.

**Bhadresh G. Sarvaiya**