**Sonali G. Sable**
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Cell: +91 9168022233/+91 8286226225

## Career Objective:

Looking for an opportunity to join a progressive organization that will effectively utilize my skills in executing projects and offer me excellent opportunities as well as growth.

## Work Experience:

**Designation : Instrumentation Design & Detail Engineering**
**Total Work Experience : 4.7 Years**

**SOFTWARE EXPERTISE :**

- Siemens SPPA-T3000 for Logics & HMI generation
- COMOS for Hardware Designing
- ExSILentia for Functional Safety Requirement Specification Report
- Intergraph Smartplant Instrumentation (SPI/Intools) all modules.

**CURRENT ORGANIZATION:**

**EMPLOYER: ENGINEERING GRAPHIC SERVICES PVT. LTD.** **Duration:** November 2017-Till Date

**Deputed at : SIEMENS INDIA LTD.** **Duration:** November 2017-Till Date

➢ **DEPARTMENT: POWER & GAS**

- **Project: 1.PTOLEMAIS UNIT V 660MW TPP**
- **Role: INSTRUMENTATION ENGINEER**
- **Tool Used: SPPA-T3000, COMOS**
- **Responsibilities: Hardware Enigneering**

1) Design of DCS **SPHA** I/O cabinets in COMOS
2) General Arrangement, General Wiring Diagram for DCS Cabinets in COMOS
3) Preparation of Channel assignment based on I/O list
4) Preparation of Interconnection Wiring Detail
5) Preparation of Profinet layout Diagrams

- **Project: 2.RUDSHUR**
- **Role: INSTRUMENTATION ENGINEER**
- **Tool Used: COMOS**
- **Responsibilities: Hardware Enigneering**

1) Implementation of KKS structure
2) Generation of Cabinet General Arrangement drawings
3) Interconnection drawings for FUM Modules : FUM 210 BG, FUM 210 ESG, FUM 232

- **Project:** **3.JK LAKSHMI CEMENT 20 MW CPP (STEAM TURBINE)**
- **Role:** **INSTRUMENTATION ENGINEER**
- **Tool Used:** **SPPA-T3000, VISIO**
- **Responsibilities:** **Hardware Enigneering**

1) Calculation of **SPHA** I/O modules required based on I/O list
2) Preparation of System Architecture & Functional Design Specification
3) Designed **SPHA** I/O cabinets in VISIO based on I/O list received from client
4) General Wiring Diagram for Cabinets & Channel assignment
5) Termination Schedule for I/Os

**Software Enigneering**

1) Preparation of HMI for Turbine area, Air Cooled Condenser Area, Boiler Area, Water Treatment Plant Area, Ash Handling Area, Limestone Handling Area based on P& IDs
2) Preparation of logics for above mentioned areas in SPPA-T3000 based on Control Narratives
3) Participated in Software FAT

**PAST EXPERIENCE:**

**1. EMPLOYER: INDCON ENGINEERING CONSULTANTS PVT. LTD. Duration:** September'15-Oct'17

**Deputed at: LYONDELLBASELL POLYOLEFINS INDIA PVT. LTD. Duration:** March 2017-Oct 2017

- **Project:** **1-Morris Complex- Burner Mitigation System**
- **Role:** Instrumentation Engineer
- **Responsibilities:**

1) Preparation of Safety Requirement Specification Report including following documents:
   a) Identifying SIFs (Safety Instrumented Function) from PHA
   b) Preparation of SIF list using PHA, Interlock Narratives, C&E and identification of sensing and final elements for the SIFs
   c) Generation of SIL verification report in exSILentia and providing recommendations for SIFs who does not meet their target SIL level

- **Project:** **2-BLO-BP2**
- **Role:** Instrumentation Engineer
- **Responsibilities:**

1) Preparation of Safety Requirement Specification Report including following documents:
   a) Identifying SIFs (Safety Instrumented Function) from PHA
   b) Preparation of SIF list using PHA, Interlock Narratives, C&E and identification of sensing and final elements for the SIFs
   c) Generation of SIL verification report in exSILentia and providing recommendations for SIFs who does not meet their target SIL level

- **Project:** **3-RBO Steam Boiler Project**
- **Role:** Instrumentation Engineer
- **Responsibilities:**

1) Verification of Instrument Datasheets for Field Instruments
2) Preparation of Instrument Datasheets for Field Instruments in INTOOLS v6.0
3) Customization of Instrument Specification sheets using Page editor, Spec Data Dictionary etc in INTOOLS v6.0

**WORK DONE FOR PROJECTS AT INDCON ENGINEERING CONSULTANTS PVT. LTD.:**

- **Project:** **1-**Upgradation Of Fire Protection System At Ongc Assets At Ahmedabad, Cauvery & Assam
- **Role:** Instrumentation Design Engineer
- **Responsibilities:**
  1) Preparing Instrument Index & I/O list
  2) Datasheets for Pressure & Level instruments
  3) Interconnection drawings for Junction boxes, Power JB, LCP, Fire Water Panel (Deluge Valve, ROSOV, LT etc)
  4) Instrument Loop drawings for ROSOV, Deluge Valves, Level loops etc
  5) Cable schedule
  6) Cable Block Diagram
  7) Junction Box & Local Control Panels Specification/Datasheet/MTO
  8) Control Philosophy & Technical Specification for Fire Water System/ Deluge Valve/ ROSOV
  9) Cable Technical Specification/Datasheet/MTO
  10) Cable Glands Technical Specification/Datasheet/MTO
  11) Cable Tray Technical Specification/Datasheet/MTO
  12) MTO For Instrumentation Piping/Tubing And Fittings
  13) MCT sizing & MTO
  14) Hook-ups for pressure instruments

- **Project:** **2-**Houston Refinery (HRO) Unit -537,636 ILD Database Project
- **Responsibilities:**
  1) Reviewing Instrument Loop Drawings with reference drawings.
  2) Preparation of ILD Database for SIS, DCS, PLC Systems.

- **Project:** **5-**Bay Porte Complex D-Line Transfer System
- **Responsibilities:**
  1) Understanding of P&ID, Logic & Sequences for D-Line Transfer System (Allen Bradley Controllogix)
  2) Generation of Process Control Narrative: Preparation of Control narrative including Process overview, Flow charts for Transfer System 1 & 2, Interlocks Description for Diverter Valve, Pressure Control Valve, Flow Control Valve, blower & Rotary Feeder etc.

- **Project:** **6-**BYO Site CO2 Removal Skid PLC at Bullets-T252 D/E Area
- **Role:** Instrumentation Engineer
- **Responsibilities:**
  1) Understanding of P&ID, Logic & Sequences for CO2 Removal Skid (Allen Bradley Controllogix)
  2) Generation of Cause & Effect Diagrams
  3) Generation of Process Control Narrative: Preparation of Control narrative including Process overview, Flow charts for Start & Stop Sequence, Interlocks Description etc.

**2. IB AUTOMATION PVT LTD.** **Duration:** July 2015-September 2015

**Client Location: EMERSON PROCESS MANAGEMENT INDIA, Koparkhairane**

- **Project:** Integrated Refinery Expansion Project, BPCL-Kochi
- **Role:** Instrumentation Design Engineer (SPI/INTOOLS v9.0)
- **Responsibilities:**
  1) Wiring for JB, marshalling panel and internal /cross wiring in SPI
  2) Wiring for conventional and **Foundation Fieldbus** Instruments in SPI

3) Customization of Instrument symbols, Loop template for Loop Drawings through Enhanced Smartloop Utility and Symbol Editor
4) Generation of Loop Drawings for Conventional Instrument Loops as well as **Foundation** Fieldbus Segments through Enhanced Smartloop Utility
5) Reviewing I/O assignments.

**3. PRATITH AUTOMATION TECHNOLOGIES PVT. LTD., Thane** **Duration:** September 2014-June 2015

- **Project:** People Project API Facility India
- **Client:** Ferring Therapeutics Pvt. Ltd.
- **Role:** Instrumentation Design Engineer (SPI/INTOOLS v13.0)
- **Responsibilities:**

**SPI ADMIN ACTIVITIES:**

1) System Administrator Activities :
   - Domain Initialization
   - Creation of Departments
   - Creating & assigning Domain Admin
2) Domain Administrator Activities:
   - Plant Hierarchy set-up
   - Defining Naming conventions
   - Creating group & assigning users to the group
   - Defining Access rights
   - Adding custom fields/tables as per requirement
3) Customization of Instrument Specification sheets using PSR files through InfoMaker
4) Creation of Loop templates, Layouts for generation of Loop drawings
5) Customization of Instrument symbols, Loop template for Loop Drawings through Enhanced Smartloop Utility and Symbol Editor
6) Exporting loop drawings to AutoCad
7) Importing Cables to SPI using Import Utility

**SPI USER ACTIVITIES:**

1) Preparation of Index Sheets in SPI
2) Preparation of Specification Sheets **Foundation fieldbus** as well as **Profibus** instruments in SPI
3) Wiring for conventional & **Foundation fieldbus** as well as **Profibus** instruments in SPI
4) Generation of Loop Drawings for conventional, **Foundation fieldbus** and **Profibus DP** tags using Enhanced Smart Loop Utility
5) Preparation of the Cable Schedule & JB Schedule in SPI
6) Hookup & Bill of Material in SPI

## Educational Qualification:

| Examination | Year | Percentage | Institute |
|---|---|---|---|
| BE (Instrumentation) | June-2014 | 70.6% | Vidyavardhini's College of Engineering & Technology – Vasai(W) |
| Diploma (Instrumentation) | June-2011 | 75.25% | Govt. Polytechnic Mumbai |
| SSC | March- 2008 | 85.38% | MGM Academy's High School |

## Academic Projects Undertaken:

- **Major project in Degree :** Smart Traffic Control
- **Major project in Diploma:** Temperature Control for Baby Incubator

## Software Applications:

- **Applications : SPPA-T3000, COMOS, ExSILentia, Smart Plant Instrumentation (Intools), AutoCAD**

## Personal Information:

- **Date of Birth :** 26 July 1992
- **Age :** 24 years
- **Sex :** Female
- **Languages Known :** English, Hindi& Marathi
- **Marital Status :** Unmarried
- **Permanent Address :** A/03, Poonam Star CHS, Virat Nagar, Virar(W)-401303
- **Correspondence Address :** B-202, Classic Harmony CHS, Plot no.18, Sector 35, Mansarovar, Navi Mumbai-410209

**Declaration:**
I hereby declare that the above information is correct and true to my knowledge.

**Place:** Mumbai

**Date:** April 2019