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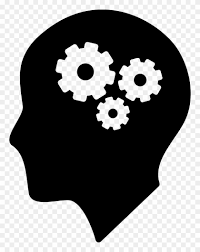
**Mr. SATNAM SINGH**

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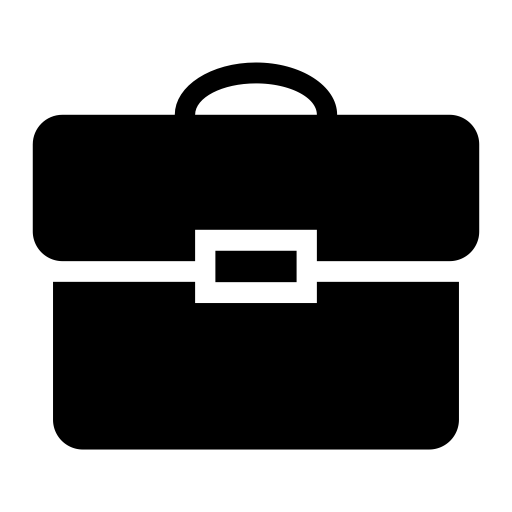
**E-Mail: satnam.libra@gmail.com**

# Profile Summary

Experienced professional having 10 years of experience in Oil and Gas and Thermal Power plant Control Designing and commissioning. Looking forward to work in a prestigious organization, which can provide a constructive & an innovative ambiance, where I can solely implement the acquired educational, technical skills, knowledge and can establish myself as an asset to the organization in the field of Process Instrumentation.

** Skills and Experience**

* Bachelor's Degree in Instrument and Control System Engineering.
* Worked across globe in **Egypt, Dubai, Nepal, Saudi Arabia, Chile, Mexico and in house for USA projects**.
* Good knowledge of Thermal Power Plant & LNG Plant. (Boilers, HRSG, Turbines, Compressors, Fractionation Column)
* Vast work experience in Instrumentation Engineering and Design for Oil and Gas Industries, Thermal Power Plants, Chemical/Petrochemical/Fertilizer plants etc.
* Good Experience in handling projects like developing Front End Engineering & Design (FEED) Packages, executing Detailed Engineering services on EPCM basis and PMC services.
* Experience as Team Leader - At least 4 projects, team size of 10+
* Work share project execution experience.
* Rich knowledge and experience in specifications, selection, design and engineering of DCS/ESD/PLC/SCADA.
* Good Knowledge on HAZOP/SIL Study including SIL calculation.
* Hands on experience of FAT (Factory Acceptance Test) of various systems like DCS/ESD/SCADA/PLC etc.
* Detailed engineering to develop various instrumentation documents like Logic Diagram, Control Narrative, Instrumented Protection Function Narratives, wiring connection details and loop diagrams
* **PLC**: Allen Bradley (Rockwell Software), Siemens (S7-300, S7-400), Prosafe (Yokogawa).
* **DCS**: Ovation (Emerson DCS), Centum VP (Yokogawa DCS) and Symphony Plus Harmony (ABB).
* **SCADA:** Wonderware, RS View, Factory Talk Automation, Simatic Manager, Simon etc.
* Ability to migrate; Retrofit systems like Siemens, Allen Bradley, Modicon, ABB, GE.
* **Communication Protocols:** OPC, Modbus, Profibus, Controlnet, Device net, IEC 61850 MMS, IEC 60870-5, DNP3.
* Good knowledge of Networking, Routers, Switches and gateways.
* P&I Diagrams, Hook-up / Loop Drawings, Isometric Drawings, Structural Drawings, Plant Layout Drawings.

** Work Experience**

**Kwale LNG Plant (125 mmcfd), Nigeria (April 2020 to till date)**

(SEEPCO is Nigeria based company with 9 operating Oil Rigs in Southern Nigeria)

* Designing and Commissioning of Yokogawa DCS Centum VP.
* Field instrument commissioning calibrating & troubleshooting.
* Create maintenance strategies and performance standards, and monitor its implementation.
* Standardization of Preventive / Predictive maintenance plans including maintenance procedures
* Evaluation of MOCs along with Process Engineers and give primary engineering inputs.
* Responsible for identifying opportunities for continuous improvement of plant operations and facilities.
* Preparation of specifications for all instrumentation items like DCS, ESD, PLC, SCADA, Anti-Surge Control, Burner Management System, Gas Detection System, Gas Metering System, Tank Gauging system, Machine Monitoring System, Machine Protection System, Process Analyzers, Gas Chromatographs, CEMS, Analyzer Shelters, Control Valves, ESD Valves with advance diagnostics, On Off valves, Safety Relief Valves, PRDS, Weighing System, Flowmeters and various types of field instruments etc.

**Emerson Automation Solutions, Noida (January 2015 to April 2020)**

(Emerson Electric Co. is an American multinational corporation headquartered in Ferguson, Missouri, United States. This Fortune 500 company manufactures products and provides engineering services for a wide range of industrial, commercial, and consumer markets)

* Designing and Commissioning of Emerson DCS Ovation.
* Conducting SAT, FAT, Kickoff Meetings, Test scenario simulations at customer site.
* Hot and Cold loop checks/ line checking as per P&ID.
* Reviewing Auto plant start logics using Advance control algorithms.
* Proficiently design, implements and tests a wide range of basic control functions, interlocks, sequences,

operator interface and other control components on DCS

* Burner management system (SIS) logic review and conducting functional tests with clients.
* Configuring third party communications line, AB EIP, Modbus, IEC61850, DNP3, Profibus
* Field instrument commissioning calibrating & troubleshooting.
* Support the root cause analysis/investigation activities for product technical issues.
* Site walk down for site surveys & data collections.
* I/O database partitioning for redundancy and fail-safe configurations, Boiler control's commissioning, start-up.
* Performance guarantee & reliability test

**Sofcon systems India Pvt. Ltd. (October 2010 to August 2014)**

(Rockwell Automation Channel Partner)

* Commission PLC and instrumentation systems of boiler, balance of plant and process plants.
* Implement auto sequence loops, closed loop, open loop control strategies
* Conduct the process control logical test, equipment logic test, design logics, configure server, historian operator station.
* Planning day to day commissioning activities, attend meetings with clients and other vendors.
* Hot/Cold loop checks, P&ID check.
* Logical /graphic modifications, I/O modification, SOE/Alarm/trend configuration.
* Implement, modify PLC system architecture as per Engineering design / site requirement.
* Coordinate with team members and execute work schedule as per customer deadline
* Design Develop and Implement PLC and SCADA program.
* Create Input/output, Equipment list reading SAMA.
* Site erection and commissioning of PLC panels at site as per project requirement.
* Captive Power Plants Grid synchronization.

# Projects Undertaken

**AES Cochrane, AES Angamos, AES Ventanas Chile (Thermal Power Plant BOP Retrofit)**

* Retrofit of 54 BOP packages was done in 3 plant at three different geographical locations in Chile.
* Control Logic and Graphics from ABB, Rockwell, Siemens, Wonderware, Simon SCADA were decoded to Ovation system.
* Team leader for team united by 8 members.
* Communication protocols involved- Modbus TCP/IP, EIP.
* Milestone was achieved in before targeted schedule of 6 months.

**SSPP Shuqaiq, Saudi Arabia (4 x 720.5 MW)**

* First super critical new generation thermal power plant by Emerson in middle East.
* Communication protocols involved- Modbus TCP/IP, IEC 60870-5-104, IEC 60870-5-101, AB EIP, OPC, Profibus.
* Was awarded with customer focus award in Asia region.
* EPC: Hyundai Heavy Industries Ltd. South Korea.
* Asset management system for Emerson and 3rd party (BOP) field transmitters and control valves.
* Milestone was achieved in 2.5 years.

**Mitsui Rio Bravo-III (Falcon Group) Tamaulipas, Mexico (495 MW)**

* Retrofitting 2 GT, One steam turbine and BOP controls from Foxboro DCS to Ovation DCS.
* Responsible for BOP and steam turbine auxiliaries’ controls retrofit.
* Asset Management System for maintenance and device management for instrumentation, analytical equipment, and control valves over HART protocol.
* Communication protocols Involved-Modbus Serial and Modbus TCP/IP.
* Milestone achieved in 4 months.

**NTPC Solar, Ramagundam 10 MW**

* New generation solar power plant automation running on Rockwell PLC Conrollogix L61
* Responsible for developing Control Logic, SCADA, report generation and third party communication.
* Communication protocols involved Modbus Serial, Modbus TCP/IP and OPC.
* Milestone achieved in 3 months.

** Academics**

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| --- | --- | --- | --- |
| **YEAR** | **Course** | **Specialization** | **University Name** |
| **2006 – 2010** | Bachelor of Engineering | Electronics and Instrumentation | Rajiv Gandhi University, Bhopal |
| **2005 – 2006** | 12th | Science | Military School Dholpur |
| **2003 – 2004** | 10th | Science | Military School Dholpur |

**Personal Details**

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| Father’s Name | Mr. Pooran Singh |
| Marital Status | Married |
| Date of Birth | 08/10/1988 |
| Passport no | Z4049315 |
| Address | T17 107 Nirala Estate TechZone IV, Gr. Noida West-201305 |

**Declaration**

I declare that the forgoing information is correct & complete to the best of my knowledge and belief.