



RAJESH SINGH

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CAREER OBJECTIVE

A challenging and rewarding opportunity to explore, enhance and utilize my skill set by backing it with a stimulating environment; this offers me depth of satisfaction and wide range of diversity of exposure, thus benefiting both the Organization and myself in the process.

PERSONAL PROFILE

- Dedicated, resourceful and innovative Detail Design Engineer offering an experience of **2+ years** expertise in **Solar Design Engineering** & 5 Years of experience in Instrumentation Control Engineering .
- Confident, growth oriented and optimistic professional with significant experience and skill sets in Design & Detail Engineering Deliverables, Technical Evaluations, Vendor Coordination.
- Well versed Design knowledge on **PV Syst ,Google Sketchup ,Heliio Scope**, Smart Plant Instrumentation (INTOOLS) & Plant Automation based on **PLC,DCS, SCADA,VFD**. Familiar with International Codes & Standards like **ISA, API, IEC, EN,BS**.

ABSTRACT

I have confident, growth oriented and optimistic professional with significant experience of **7+ year** with versatile skill sets in Technical Deliverables.

Currently working as a **Design Engineer** in Smartbrains Engineers & Technologist Pvt.ltd .I am responsible for the Engineering Services & Detail Design for Oil & Gas, Petrochemical, refinery, Steel Plant & **Solar Power Plants** as per the guidelines received from International Codes & Standards.

PROFESSIONAL EXPERIENCE

Design Engineer – M/s Smart Brains Engineers & Technologist Pvt. Ltd., Noida from April 2013 to March 2017.

ORGANIZATION PROFILE:

Smart Brains Engineers & Technologist Pvt. Ltd is an ISO 9001-2008 Certified company specializes in EPC Plant Engineering Services, & Detail Design, As-built Engineering, Plant Design for Oil & Gas, Petrochemical, Refinery, LNG, Steel Plant & **Solar Power Plants**.

ROLE & RESPONSIBILITIES

- 1- Solar PV module Selection & Sizing ~ Series & Parallel Connection ~ Selection & Sizing of Inverters ~ Sizing of SMB/ACB ~ Sizing of ACDB & MDB. Concept of Ongrid & Offgrid, Charge controller.Solar Radiation & Shadow Analysis ~STC & NOCT Condition ~ Sankey Diagram ~ Vmpp & Impv Characteristics ~ Fill factor ,AC & DC Cables, MC4 & Y Connector~ Losses in SPP & System Yield performance.SLD of Rooftop and ground mount **SSP Design on PV Syst 6.5,Google Sketchup,Heliio Scope** .
- 2- Instrument Index ~ I/O List ~ Instrument Data Sheets & specifications ~ Cable Schedule ~ Junction Box Grouping / Schedule ~ Control Valve Sizing ~ Hook-Up Drawing ~ Loop Drawings ~ Level Sketches ~Field Wiring form JB to MR & MR to DCS ~ Technical evaluation of Vendor offers & finalization for Procurement with user level activities in Smart Plant Instrumentation (**INTOOLS**) & Control logics of Allenbradley / Siemens Controllers.

PROJECT EXPOSURE: Smart Brains work as a Third Party.

SOLAR INDUSTRY

Preparation of separate Detailed Project Reports (DPR) for each of the Solar Roof Top & Ground Mount Projects
The Scope of DPR includes:

- Grid Assessment
- **Comparison of Technological Option**
- **Preliminary PV System Design & Layout**
- Yield Study
- Economic Analysis

1-Rooftop solar photovoltaic **500 Kw** Solar Power Facilities of Delhi Metro Rail Corporation Ltd. (DMRC) at Yamuna Bank Metro Station and Yamuna Bank Yard.

2- Foot Over Bridges solar photovoltaic **225Kw** Solar Power Facilities of Delhi Metro Rail Corporation Ltd. (DMRC) at Faridabad Corridor of Line-6.

3-Indian oil Corporation had Setup a **5Mw** Solar power plant in Rawara Rajasthan under JNSSM.

OIL & GAS INDUSTRY

Carbon black and delayed Coker (CBDC) plant- *Takreer refining Abu Dhabi.*

The combined refining capacity at Takreer's two refineries in Abu Dhabi is currently about 490,000 barrels per day. The expansion of Takreer's refining capacity of nearly 1 million barrels of refined products per day. The CBDC facility will be located at the chemical refining Abu Dhabi.

The refinery project is to be developed in Gas Scrubber package, including crude distillation and sulphur recovery facilities, a residue fluidised catalytic cracker, offsites and utilities, storage tanks, infrastructure work and two separate packages for the site preparation works.

Skills Development Program for Instrumentation & Control under NSDC & SSC -*Gail India-Guna & HPCL- Vskp*

The Ministry is responsible for co-ordination of all skill development efforts across the country, removal of disconnect between demand and supply of skilled manpower, building the vocational and technical training framework, skill up-gradation, building of new skills, and innovative thinking not only for existing jobs but also jobs that are to be created.

The Ministry aims to Skill on a large Scale with Speed and high Standards in order to achieve its vision of a '**Skilled India**'.

Establishment of Skills Development Labs

The MSDE (Ministry of Skill Development And Entrepreneurship) is responsible for co-ordination of all skill development efforts across the country and supply of skilled manpower, building the vocational technical/Non technical training framework, skill up-gradation, building of new skills, and innovative thinking not only for existing jobs but also jobs that are to be created.

- Skill Development Center[**Gail India**]- **Guna(MP)**
- Skill Development Institute[**HPCL**] –**Vishakhapatnam(AP)**

Senior Engineer – Project ,Services & Training at M/s Sofcon India Pvt.Ltd, Noida from Jan 2010 – March 2013

Organization Profile:

Sofcon India Private Limited, established in the year 1995 is an ISO 9001-2008 Certified company, Affiliated & Funded by National Skills Development Corporation (NSDC) of India, A Government of India Initiative. It runs 14 branches across India to provides turnkey of Industrial Automation, Building Automation.

Job Responsibilities:

- Installation, Commissioning & servicing of Control system; interfacing of Instruments like Temperature ,Pressure Flow,Levels-Transmitters, Switches, Gauges, sensors & Transducers, AC frequency drive(VFD), PID controller, Control Valve & Actuator etc.
- Installation, Commissioning & Testing of PLC/DCS Panel.
- Installation, Commissioning & servicing of Motor Control Panel using VFD.
- Installation, Commissioning & servicing of Human Machine Interface.
- Sound Knowledge of SCADA and their Control Interfaces .
- Humen machine Interfaces of different vendors.
- CCD & PCD for DOL-RDOL & Star Delta Starter for Induction Motor.
- Reviewing P&ID, Instrument related Data Sheet on Tendering Stage.
- Product Presentation to Engineers/Technical Professionals.
- To Impart training to the Engineers/Professionals and other technical persons of the client.
- To generate spares & new regulators enquiry & resolve related technical & commercial issues.

TECHNICAL SKILLS:

Detail Engineering

- **Solar PV module Selection & Sizing.**
- **Series & Parallel Connection.**
- **Selection & Sizing of Inverters.**
- **Sizing of SMB/ACB.**
- **Sizing of ACDB & MDB.**
- **Solar Radiation & Shadow Analysis.**
- **STC & NOCT Condition.**
- **Selection & Sizing of AC & DC Cables.**
- P&ID ,PDS & PMS Review
- Preparation of Instrumentation data Sheet.
- Preparation of Instrument Index.
- Generation of Specification Sheets.
- Field wiring from JB to MR & MR to DCS.
- Preparation of I/O List.
- Cable Scheduling.
- Selection & Sizing of Field Instruments such as Temp,Pressure,Level,Flow .
- Selection & Sizing of Control Valves & Calculation of Cv.
- Interfacing of Field Transmitters ,Switches & Gauges.

Layout/Drawings On AutoCAD

- **Single line Diagram for Roof top & Ground Mount Solar Power Plant.**
- Preparation of Loop Drawings.
- Preparation of Hook up Diagram.

SOFTWARE SKILLS

- Software Proficiency : Basics of AutoCAD,PV Syst,Google Sketchup,Hellioscope, SPI, Instrucals.
- Operating System : Windows 2000, 2007,2010.
- MS Office : MS Word,MS Excel,Power Point,MS Outlook Etc.

ACADEMIC QUALIFICATION

B.TECH in ELECTRONICS & COMMUNICATION ENGG. in the Academic session of 2005-2009 from UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY [U.I.E.T], KANPUR (U.P.)

PERSONAL DETAILS

Date of Birth : 03-07-1982
Current Address : C/O Mr. Jai Pal Singh
Near Jagdesh Medical Store
Chellera, Lane No-3,Primary School Sec-44 Noida
Dist- Gautam Buddha Nagar ,Pin Code - 201303.

Permanent Address : C/O Mr. Shriram Singh
H.No: 423, Village/Post - Paina
Dist- Deoria(U.P), Pin Code - 274604.

Gender : Male
Marital Status : Married
Leisure Activities : Listening & Reading.
Languages Known : English, Hindi

Declaration

I hereby declare that all the information provided by me in this Resume is factual & correct to the best of my knowledge and belief.

Place: Noida (D-NCR)

(Rajesh Singh)