

# **RAJENDER ARYA**

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ADD. : Ghaziabad (U.P)

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## **EDUCATION**

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Bachelor's Degree ( **Mechanical engineering,2013**) from **Delhi Institute of Technology &Management**, Sonipat, affiliated **Maharishi Dayanand University**, Rohtak, Haryana and schooling from **Shambhu Dayal Inter College (U.P board)** at Ghaziabad, Uttar Pradesh.

Certification program (**Three month**) in **Solar power plant design** and **Solar power plant structure design** from **AEDEI,NEW DELHI**.

Certification program in **steel structure designing and detailing (Two month)** from **FRIENDSOTTECH INSTITUTE** (REGD.NCT OF DELGHI)Delhi.

Certification program in **Static Equipment Design** (process equipment design , pr.vessel , heat exchanger column and piping ) from **FRIENDOFTTECH INSTITUTE** (REGD.NCT OF DELGHI)Delhi.

## **DESIGN( SOFTWRAE )SKILL**

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- **PV-SYS 6.4.3 and PVSOL 7.5** : Design and analysis photovoltaic system (Rooftops and ground mount solar system )
- **SKECH-UP (17)** : 3D Presentation of project or product and shadow analysis for solar system.
- **PV-ELITE (016)** : Design and analysis of vessels and heat exchanger components according to ASME BPV Code Section VIII, Divisions 1 & 2, tema.
- **CODECAL 2016** : Design and analysis individual components of vessels and heat exchanger components.
- **SmartPlant3D (2014):** Design and drafting of piping iso drawings, equipments layout, structure layout, plant layout etc.
- **STAAD- PRO V8i** : Analysis and Design of steel Structures.
- **TEKLA.21** : Steel structure 3D modeling and detailing.
- **ANSYS.14** : Structural connection analysis, nozzle analysis, FEA methods.
- **SolidWork(015)** : Solid Modeling, Surfacing, Sheet metal Design, Assembly & Drafting, Analyses, Molds, Structure & Rendering etc .
- **AutoCAD 2010** : 2D, 3D Designing.
- **Catia V5** : Solid Modeling, Surfacing, Assembly & Drafting, Sheet metal, simulation Analyses.
- **HTRI** : heat transfer calculations for shell & tube heat exchanger.
- **PRIMAVERA P6** : For Project Management

## **FAMILIAR WITH NATIONAL & INTERNATIONAL COEDS & STANDARD**

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- ✓ FOR SOLAR (photovoltaic) SYSTEM DESIGN (ROOFTOP AND GROUND MOUNT )  
**IS : 1255** (POWER CABLE UP TO AND INCULUDING 33 KV RATING) , **IS : 3043** (PLANT EARTING) , **IS : 2309** (PROTECTION OF BUILDING AND STEEL STRUCTURE AGAINST LIGHTING )
- ✓ FOR PRESSURE VEESEL AND HEAT EXCHANGER (STATIC EQUIPMENTS DESIGN)

## ASME BPVC Sec -8 DIV 1,2 (2015), UHX, TEMA, API-660

### ✓ FOR STEEL STRUCTURE

**IS 800 : 2007** (General Construction in steel ) , **IS 875 PART -1 : DEAD LOAD** , **IS 875 PART -2 : IMPOSED LOAD IS 875\_PART-3 : 1987** (Wind load Design for building and structure ) , **IS 456 : 2000** (Plain and reinforced concrete code) , **IS 2527 : 1984** (Code of practice for fixing rainwater gutters and downpipes for roof drainage).

### ✓ FOR PIPING

**ASME B.31.1** (Power piping), **ASME B.31.1** (Process piping) **ASME B.31.5** (pipe flanges & flange fittings)

### ✓ FOR OIL DRILING TOOL (SPECIFICATION & TESTING BOW SPRING CENTRALIZER & STOP COLLAR)

**API-10D** FOURTH EDITION-1991 (SPECIFICATION FOT CENTRALIZER), **API-10D2** (SPECIFICATION FOR STOP COLLAR)

### ✓ FOR QUALITY MANAGEMENT SYSTEM (QMS)

**API- Q1** (Quality management system), **ISO 9001:2008**

## Work Experience

### ➤ Structure Design Er.

May.'16-present

Design & analysis space frame toll plaza canopy in staad- pro and detailing in AutoCAD and generate 3D modal in solidwork of bus shelter, space frame steel structures, Pre-fabricated engineering structures, canopy structure etc. Generate foundations drawing and pedestal or column drawing for civil work for structure; also coordinate with client for drawing approval.

### IMAGINEARC INFRASTRUCTURE PVT. LTD., NOIDA

**M/s IMAGINEARC** is a well - established ISO 9001:2008 Certified Organization established in 2008 with the objective of providing innovative and cost effective solutions related to the Highway Fabrication work like as: Pre engineered buildings system, Toll Plaza Canopy, Bus shelter, Guard Rail, Crash Barrier, Fencing work, Space frame, Metal fabricated structure, Prefab Houses, Road Marking, Toll automation system, Skylight, Roofing Works, Glow sign board, Metal railing, Pergola work, Cladding and related services. ]

### SOME PROJECTS

s.no.	Client name	Project name	Nature of work	Site location
1.	IL & FS TRANSPORTATION LIMITED	BRW-PANN EXP	TOLL PLAZA, FOOT OVER BRIDGE, BUSHELTER	DHANBAD, JHARKHAND
2.	LARSEN & TOUBRO LTD.	RK - SMBL EXP	26 x 14 M , space frame toll plaza,	ODISHA
3.	GALFAR ENGINNERING INDIA LIMITED	KSP-STG EXP	20 x 58 M , space frame toll plaza	UTTRAKHAND
4.	MONTE CARLO LIMITED	KHN - KASAR	20 x 30 M space frame toll plaza	MAHARASHTRA
5.	DILIP BUILDCON LIMITED	DLP-KARL EXP	TOLL PLAZA	RAJASTHAN
6.	DRA AGARWAL LIMITED	MERTA CITY	TOLL PLAZA	RAJASTHAN
7.	RAVI INFRA PVT LTD.	BHILWARA	20 x 18 M ,space frame toll plaza	RAJASTHAN

### JOB RESPONCIBILTY AS, STRUCTURE DESIGN Er.

- **Design & Develop** of 3D model (bus shelter, Footover Bridge) in **Solidwork & tekla** for fabrication & erection detailing.
- Conceptualize models & create part detail **drawing / assembly & BOM** in tekla.
- **Calculate weight of structure members and whole** structure weight.
- Responsible for R&D concept design and existing product development of technical drawing & Product Specification.
- Steel structure (Toll Plaza, Steel Space Frame), analysis in staad pro and generate Staad file.
- **Calculate wind load, & design calculation for toll structure.**

➤ **Design Engineer** (Sheet metal product)

Oct.'14-Apr.'16

Experience in **Product Design & Develop, prototype, Design calculations, and product validation Engineering change and bending operation of sheet metal parts or products.**

**HICON PRODUCT INDIA (P).LTD, SAHIBABAD**

**M/s HICON** is a leading name in manufacturing Acoustic Enclosures, Canopy, Generator, Axial fans, Diesel tanks, Retail display solutions, Modular kitchens, Modular furniture and Stainless steel commercial kitchen equipments.

**PROJECT.1** - ESCORT GENERATOR (15, 20, 25, 30, & 40) KVA Canopy and VOLVO EICHER GENERATOR (40, 45, 62, 82 & 125) KVA Canopy approved by CPCB.

**PROJECT.2** – Also work on Retail Display table, Elmira and some Stainless steel commercial kitchen product.

**JOB RESPONSIBILITY AS, DESIGN/PRODUCTION ENGINEER**

- Design & Develop of solid model (Solidwork) with the help of 2D layout (AutoCAD).
- Conceptualize models & create part detail drawing / assembly & BOM in Solid works
- Calculate weight of sheet metal part or assemble product.
- Responsible for R&D concept design and existing product development of technical drawing & Product Specification.
- Calculate bend allowances, bend deduction & k-factor for sheet metal part and blank sizes on stainless steel and MS products.
- Make a flat blank pattern and DXF files for every part of product for cutting process.
- Make Bending drawing for every part of product and also watch the bending process.
- Also watch assembly of bending parts at assembly process.

➤ **Quality Engineer**

Jul.' 13-Oct.'14

**Incoming inspection, processing inspection, final inspection, product inspecting, operating inspection** and maintained all Records according to **the procedure & documents** and standards Documentation of **ISO 9001:2008, API Q1 QMS / API 10D & 10D2** for verification of Inspectors/Auditors. **Process Audit, product audit, Quality Manual, Quality procedure, SOP, Control Plane etc for API Q1 and ISO.**

**NEOZ ENERGY PVT LTD, GHAZIABAD**

**M/s NeOz Energy Pvt. Ltd.** an **ISO 9001:2008, API, ISO14001, ISO18001** Certified Export Company which is the **foremost Oil and Gas Company** manufacturing Oil Drilling Tools used for various stages of Drilling. NeOz Energy Pvt. Ltd. specializes in manufacturing of high quality **Casing Centralizers & Stop collar for Vertical** as well as **Deviated Drilling.**

**PROJECT**

worked with a hardworking team to implement ISO 9001:2008, API Q1 Quality Management System and API 10D & API 10D2 technical standard and created formats and three Year Document for API Q1 QMS, and API, 10D for audit at given time. Successfully carried out (with zero non- conformance) API Q1 QMS AUDIT in Nov.'13, Marketing Department as an Auditee.

#### JOB RESPONSIBILITY AS, QUALITY ENGINEER

- Monitoring Quality of all Components.
- Handling Customer's Complaints and Solving the Quality Issues.
- Implementing **Q.C Circle activity** on the basis of daily problem.
- **CAPA against Rejection at in-house & non conformance activities.**
- API Testing for **bow spring centralizer** and **stop Collar** according to **API 10D, 10 D 2 standards.**
- Process Improvement to reducing rework.
- Documentation of **ISO 9001:2008** and **API Q1.**
- Inspection of components for assuring that is meeting the customer Requirement.
- **Dyepetrant** Inspection Test for welding hole and cracks and Eliminate defects and improve Quality.

#### JOB RESPONSIBILITY AS, MARKETING EXECUTIVE

- Follow-up Customer enquiries.
- Realize **work authorization** QC, design and development and Production Department.
- Provide customer **dispatch** and **product related documents.**
- Take **CAPA** against delay of **dispatch or delivery** of work- Authorization.
- Prepared **product data chat** (PDC)
- **Contract Review** when enquiry becomes **mature.**

### ACHIVEMENTS

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- Successfully design and develop (Solidwork & AutoCAD) ESCORT & VOLVO EICHER GENERATOR CANOPY.
- Successfully carried out (with zero non- conformance) API Q1 AUDIT in Nov.'13 of Marketing Department as an Auditee.

### TRAINING

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- Six Week Training in Advance steel Tubes Ltd. Site-4 Sahibabad, Ghaziabad.
- Two day 5s training in NeOz Energy Pvt. Ltd
- One day Kaizen training in NeOz Energy Pvt. Ltd.
- One day Safety & Health training provide by Tata steel in NeOz Energy Pvt. Ltd

### PERSONAL DETAIL

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**Father's Name** - Shri.Narender Singh (Govt.sevs.), **Date of Birth** - 23th. Jan.'91, Marital **Status** –Single **Mother's name**- Smt. Beena Devi (House wife). **Nationality** - Indian **Languages** - Hindi, English **Hobbies** -Painting.

### DECLARATION

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The information furnished above by me is true to the best of my knowledge and belief. Hereby declare that.

**Place:** Delhi

**Date:**

*Rajender Arya*