

## Umesh Prajapati (B.E. Mechanical)

Mobile :- 09624232173,09033841966

E-Mail :- iamums13@gmail.com

Address :- B-13 Payal Park Society, v.i.p. Road, Karelibaug, Vadodara - 390018.

### Career Objective

To work in an organization which enhancing my skills and knowledge and guide me towards success and so that I can prove myself as a valuable asset for the organization.

### Educational Qualifications

DEGREE	INSTITUTE / UNIVERSITY	YEAR	PERCENTAGE (%)	CLASS
B.E. Mechanical Engineering	Noble Group of Institutions, Junagadh Gujarat Technological University	2015	7.9 CGPA	Distinction
H.S.C.	Sardar Vinay Mandir, Karelibaug, Vadodara Gujarat Higher Secondary Education Board, Ghandhinagar	2010	60%	Second Class
S.S.C.	Sardar Vinay Mandir, Karelibaug, Vadodara Gujarat Secondary Education Board	2007	77.08%	Distinction

- I got **1st Rank** in Robotics from Noble Group of Institutions Robotics Event.
- Lead the college tech-fest – “**NOBETECH**”
- I have **Qualified AIEEE Exam**.
- Successfully attended (**AIESEC**) **Baroda Youth of Business Forum 2015** at Vadodara.
- I have Successfully Completed **Computer Application Course** Certificate by Jankalayan Computer Saksharta Mission.

### Professional Experience

Presently working in Philoden Industries Pvt Ltd, Padra unit of **800 MT per annum** Having **more than 50 products: PolyPlast** (Polymer soluble Dyes), **PolyFast** (Pigment for Polymer Coloration) and **PolyPon** ( Solvent Soluble Dyes).

Past Experience in DCM Shriram Alkali & Chemicals Ltd, Jhagadia **Chlor-alkali** unit of **1000 TPD** Capacity having products: **Caustic soda flakes**, **Caustic soda lye** (Naoh), **Chlorine gas** (Cl<sub>2</sub>), **Hydrogen gas** (H<sub>2</sub>), **Hcl acid** & **Sodium Hypochlorite** (NaOCl).

DESIGNATION	COMPANY NAME / PLACE	TENURE
Maintenance Engineer	Philoden Industries Pvt Ltd, Padra Dist :Vadodara	February 2017 to Till Date
Maintenance Engineer	DCM Shriram Alkali & Chemicals Ltd Jhagadia, Dist : Bharuch	Sep 2015 to Jan 2017

## Projects Undertaken

<b>1</b>	<b>Professional Project</b>
<b>Title:</b> - "To increase the capacity of caustic chlorine plant (Expansion of capacity-600 TPD)"	
<b>Objective:</b> To reduce the per unit production cost, To fulfill the market requirements.	
<b>2</b>	<b>Educational Project</b>
<b>Title:</b> -"Spur Gear Tooth Stress Analysis & stress Reduction.	
<b>Objective:</b> To understand practically the design of Spur Gear and to Minimize Stress in Spur Gear By Use of aero fin Place on Spur Gear By Ansys Software.	

## Chemicals & Equipment handled

- During my working period I have been exposure with routine maintenance activities which includes planning, scheduling & execution of different type of equipments.
- Having experience in **MEE Plant, Distillation Unit, incinerator plant, cooling tower, Reactors, Dryers plant, cell house, Boiler, Centrifuge, Vacuum System, Pulveriser Plant, siever system, Blander system, nauta Mixer, ETP Plant, Cl<sub>2</sub> Compressors, H<sub>2</sub> Compressor, H<sub>2</sub> Blower, chlorine washing tower, Decoloration Tower, Chiller Plant** etc.
- **Hydrogen gas compressor** – C5T223 GP & C5U217 (Capacity: 440Nm<sup>3</sup>/Hr & 220Nm<sup>3</sup>/Hr).
- Rotary Equipment's such are **Centrifugal Pumps, Dosing Pumps, Diaphragm pump, Agitator, Blower, Centrifuge, Reactor, Nauta Mixer, ANFD, Pulveriser Pump, Vacuum Pump** etc.
- Static Equipment's such are **MEE PLANT, INCINERATION PLANT, Li-Br Chiller (VARS), Air dryer, Electrolyzer, Heat-Exchanger, Filter Press, AIR COMPRESSOR, N<sub>2</sub> COMPRESSORS, COOLING TOWER**, etc
- 210 Tons of **Refrigeration Capacity Kirloskar Make KC-9 & KC-12 Refrigeration Compressors (Freon Compressor - Ring Compressor)**
- **300 TPD Caustic soda flaker plant having 3 nos of Bertmas make 100 TPD capacity drums**
- **Moving Equipment's** such are **EOT Cranes, Salt handling Belt-Conveyor System** etc.
- **Air Compressors** - Screw Compressor, **Nitrogen Compressor.**
- **Cl<sub>2</sub> gas compressor** - 110 TPD Liquid-ring Compressor
- **Centrifugal Compressor** - Garo Make & Devi high tech
- **Various Types of Valves**
- Fabrication of pipelines various types of MOC's
- Overhauling of **H<sub>2</sub> Compressors, Pumps, Reactor, ANFD, Gear Box, Filter Press, Hypo Blower, Air Compressor & Refrigeration Compressors.**
- Familiar with SAP system (MM, PS, Finance & PM MODULE)

### During Project (Expansion of plant capacity – 600 TPD Plant Capacity):-

- Understanding of various P & IDs, general arrangement of various equipments, layout drawings etc.
- Making of SOPs of various equipments like pumps, compressors, valves, plate type heat exchangers etc.
- Comparison sheets & selection of parties according to technical specification.
- Making of BOQ.
- Familiar with SAP system (MM, PS, Finance & PM MODULE)
- Fabrication & Erection of Tank, pressure vessels & structure.
- Planning of various fabrication & erection activities & making schedule accordingly.
- Erection of Cl<sub>2</sub> Washing Tower (Make: M/s Chemical Process Equipment) with fabrication & erection of connected pipelines

- Erection of Electrolyser plant (Model: NCH, NCZ) with fabrication & erection of connected pipelines (Make: M/s Asahi Kesai, Japan)
- Erection of Declorination Tower (Make: M/s Chemical Process Equipment) with fabrication & erection of connected pipelines.
- Erection of Brine Heater & Cl<sub>2</sub> cooler (Make: M/s Anup Engineering Ltd) with fabrication & erection of connected pipelines.
- Erection of Anthracite Brine filters plant with fabrication & erection of connected pipelines (Non Metallic pipelines).
- Commissioning of pumps without stoppage of plant.
- Commissioning of CPE make Cl<sub>2</sub> washing tower.
- Commissioning of CPE make Declorination tower.
- Commissioning of Anthracite filter.

## Vocational training

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- I had completed "ADVANCED VOCATIONAL TRAINING" in subject of "APPLICATION OF DIFFERENT TYPE OF PHE, PUMPS & PIPELINES IN INDUSTRY" at **LUPIN LTD**, Vadodara 09 Days Training.
- I had completed "ADVANCED VOCATIONAL TRAINING" in subject of "DIFFERENT TYPE OF WELDING PROCEDURE & VESSEL MAKING" at **JANARDAN METAL INDUSTRIES**, AT Vadodara 15 Days Training.
- I had completed "ADVANCED VOCATIONAL TRAINING" in subject of "MANUFACTURING PROCESS, QUALITY CONTROL and MAINTENANCE PLANS & EXECUTION" at **ORAL-B**, Vadodara 11 Days Training.

## IT Skill

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MS- OFFICE, **SAP (System Application Product)** & MS Project.

## Key Skill

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### Preventive, predictive, breakdown & Shut down maintenance

Ability to work Under Pressure, Positive Attitude, Mechanical Maintenance of rotary & static equipments, Excellent communications, Flexible in approach. Committed team leader.

**Expected Salary:** Negotiable

## Personal Profile

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<b>Date of Birth</b>	:	1st of sep-1991
<b>Gender</b>	:	Male
<b>Marital Status</b>	:	Unmarried
<b>Nationality</b>	:	Indian
<b>Language Known</b>	:	English, Hindi, Gujarati, Sanskrit
<b>Interests</b>	:	Reading, playing Cricket & badminton, music
<b>Soft Skills</b>	:	<ul style="list-style-type: none"> <li>• Adaptability quality</li> <li>• Co-operative</li> <li>• Believe in team work</li> </ul>
<b>Specialty</b>	:	Confidence , Adapting changing environment

## References

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**Mr.R.B.Bhavsar**

HOD (Mechanical Department)  
Philoden Industries Pvt Ltd  
Contact No :09662796335

**Mr. Rahul patel**

Joint Manager (Mechanical Department)  
DCM Shriram Alkali & Chemicals Ltd  
Contact No: 09924434042

I hereby declare that all the statements are true and best of my knowledge.

Thanks,  
UMESH M PRAJAPATI