

# Avinash Shivaji Patil

## PIPING DESIGN ENGINEER (MECHANICAL)

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### Career Objective

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To be able to utilize the knowledge already gained, in a responsible and proper manner resulting in a value add to the organization and to reach the apex of my career in the process.

### Advance Training & Certification

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#### PIPING DESIGN ENGINEERING AND CONSTRUCTION

**Autonomous Post-Graduate Diploma in Piping Design Engineering & Construction.**

ASIAN Academy of Professional Training, Pune.

### Academic Profile

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CLASS	UNIVERSITY / BOARD	INSTITUTE/SCHOOL	YEAR	POINTER / PERCENTAGE
P.G.D.P. E	Asian Academy, Pune	Asian Academy, Pune	2019-2020	1 <sup>st</sup> class
B. E	Mumbai University	Finolex Academy, Ratnagiri.	2019	7.53
H.S.C	Kolhapur Board	Vivekanand College, Kolhapur.	2015	71.23
S.S.C	Kolhapur Board	Dhananjay Vidyalay, Naganwadi.	2013	94.91

### Work Experience

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#### ❖ PIPING ENGINEER

**COMPANY NAME: - ARYA ENGINEERS & CONTRACTORS PVT.LTD.PUNE**  
**DURATION: - 02/01/2021 to 20/12/2022.**

- Preparation and review of Equipment's layouts, piping layouts.
- 3D modelling of whole project i.e. equipment, line routing, supports etc
- Material Take-off (MTO) activities.
- Driving the 3D model review with client on Eshare.
- Comment updation according to client requirement.
- Checking of Isometrics along with BOM in correlation with P&ID end connectivity and validity as per PMS and Line list.
- Inter discipline coordination.
- Study of Equipment & Piping specification as per ASTM, ASME, ANSI & API.

## ❖ PROJECT WORK:

### 1) PROJECT NAME: - TCL(USA)

- Preparation of 3D model
- Preparation of Equipment layout & finalizing the Nozzle orientation.
- Responsible for Nozzle orientation, MTO & Isometrics etc.
- Line routing according to PID.
- Review & updation of Primary & secondary support.
- Preparation of civil information drawing.
- Checking & validation of vendor drawing.
- Drive the Model Reviews.
- 2D layout extraction using 3D software.
- Isometric extraction and checking.
- Electrical & Instrumentation cable tray routing according to layout.
- Generate clash report file.
- Co-ordinate with other disciplines.

### 2) PROJECT NAME: - BASF

- Modeling of pipes using P&ID and PMS.
- Modeling of Equipment's using Vendor Data Sheet.
- Modeling of Pipes for Heat Exchangers and Pump Suction and Discharge.
- Extraction of isometrics for various Process and Utility lines.
- Checking of isometrics with respect to Line list, P&ID and PMS.
- Resolving/Updating the Tags/comments as per the client.
- Preparation and checking of General Arrangement Drawings.
- Scheduling the deliverable as per the client schedule.
- Resolving of 60% and 90% tags as per client suggestions.
- Co-ordinate with other disciplines.

### 1) PROJECT NAME: - JOHNSON & JOHNSON

- 3D Modelling of duct i.e duct routing according to layout.
- Line supporting with respect to standard support span.
- 2D layout preparation from 3d extracted file
- Electrical & instrumentation cable tray,rack room,JB,rio panel ,support modelling and updation.

## ❖ PIPING ENGINEER

**COMPANY NAME: - GEICO-TAIKISHA, PUNE**

**DURATION: - 02/01/2023 to Till Date.**

## ❖ PROJECT WORK:

### 1) PROJECT NAME: - AUDI, POLAND

- Preparation of 3D model.
- Isometric checking
- Line routing checking in naviswork.
- Line routing according to PID.
- Preparation of support layout.
- Preparation of piping layout.

### 2) PROJECT NAME: - VOLKSWAGEN, GERMANY

- Isometric checking
- Line routing checking in naviswork manage.
- Line routing according to PID.
- Preparation of support layout.
- Preparation of Piping layout.
- Clash checking and viewpoint markup in navis.

### 3) PROJECT NAME: - FORD KOLN

- Line routing & updation according to PID.
- Line routing checking in naviswork manage.
- Isometric Extraction & checking.
- Bill of material extraction and checking.
- Preparation of support layout.

## IT Technical Summary

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### Computer-Aided Design

- CADMATIC
- AUTOCAD PLANT 3D
- AUTOCAD
- NAVISWORKS
- ESHARE(REVIEW)
- PDMS 12.0 SP6

## Technical Knowledge Acquired

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- Reviewing Vendor Equipment Drawing's, Vendor Skids and commenting for piping related issues.
- Study and modeling of piping as per P&ID's according to accessibility, maintenance, support requirements and required flexibility and updating the same by making mark up on P&ID if any change is done.

- Drafting & checking isometric piping in AutoCAD.
- Experience in Piping Design activities (Piping GAD's, Isometrics)
- Proficient in ASME codes and standards & basic knowledge of DIN standards.
- Experience in 3D modeling of Equipment's such as Columns, Tanks, Filters and pumps Heat exchanger etc. in CADMATIC & AutoCAD Plant 3D
- Clash/Error checking in 3d software and ability of solving the errors before issuing of isometrics.
- In-depth knowledge of Microsoft Office.

## Area of Interest

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- Piping and Designing Engineering 2D & 3D.
- Engineering design, detailing & development.

## Strengths

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- Quick learner and team player.
- Keep myself calm and focus on multitasking.
- Self-motivated
- Keep my knowledge updated and complete my assigned work in time.

## Hobbies

- Playing cricket, watching movies,listening music.

## Personal Profile

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Date of birth- 18 Jan 1997

Nationality- Indian

Marital Status- Single

Languages known- English, Hindi & Marathi

Address-At/post:-Chandgad,Tal:-Chandgad, Dist:-Kolhapur, State:-Maharashtra.Pin-416509

## Declaration

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I hereby declare that all the particulars furnished by me in this application are correct and complete to the best of my knowledge and believe.

Date: / /2023

Place: Pune.

AVINASH SHIVAJI PATIL