

**AVINASH A. PATIL**  
**(SENIOR PROCESS ENGINEER)**

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## PROFILE SUMMARY

Over 8 years' experience in Process Engineering. Best known for abilities in gathering project requirements during scoping, working in large teams, maintenance of project schedules under budget and performing process calculations according to client/company guidelines.

Currently associated with **AKER SOLUTIONS PVT. LTD.** in Process Engineering Department.

Strong organizer, motivator, team player and a decisive leader with successful track record in completing the assigned task.

## SKILLS / CORE COMPETENCIES

- Development of Schematic diagram, PFD, H&MB, P&ID.
- Preparation of Project & Process design basis
- Line Sizing; Equipment Sizing (Separators, Tanks, Expansion vessels, Heat Exchangers, etc); Pumps hydraulic study; Control Valve Sizing, Relief Valve sizing
- Preparation of Process Data Sheets & Instrument data sheets
- Operating, Control and Safeguarding Philosophy (OCSP); Process Control Narrative (PCN); Process Description; Technical Notes
- Preparation of Cause and effect diagram & alarm and trip list
- Preparation of line list, Equipment list, Utility summary, Critical valve list, Flare load summary, battery limit summary
- Participated in Design Review meeting, HAZOP, Model review & Close-out Report
- IDC and Vendor Document & Drawing review
- Hands on experience on HYSYS Simulation (Ver 10.0), EDR, HTRI and Flarenet
- Good working knowledge of International codes such as API, GPSA, NORSOK, ASME and Indian regulations

## EXPERIENCE RECORD

### **AKER SOLUTIONS PVT LTD, MUMBAI, INDIA**

July 2019 – Present

**Designation:** Senior Process Engineer

**Department:** Process Engineering

### **PROJECTS HANDLING/HANDLED:**

**1. NOA PdQ PLATFORM PROJECT**

**Client:** AkerBP, Norway

**Major Responsibilities:**

System responsible engineer for MEG Storage and Injection, Hydraulic Power Unit, Scale Squeeze Inhibitor and TEG Storage System.

**2. GALLAF BATCH-3 PROJECT**

**Client:** North Oil Company, Qatar

**Major Responsibilities:**

System responsible engineer for Heating Medium system, Diesel System and Power generation System.

**3. IOCL BARAUNI CAPACITY EXPANSION PROJECT**

**Client: Indian Oil Corporation Limited (IOCL), India**

**Major Responsibilities:**

Role includes simulation in HYSYS V.10, PSV calculation, Flarenet, datasheet preparation for static equipment, PID development, cooling water network analysis, summaries such as utility, B.L. and flare load, preparation of Condensate recovery system study note, HAZOP closeout report, C&E and other miscellaneous activities.

**4. P-XYLENE HANDLING THROUGH TANK 15A/B**

**Client: Gujarat Chemical Port Terminal Company Limited (GCPTCL), India**

**Major Responsibilities:**

Worked as a Lead Engineer in small brown field project for PX-Handling capacity expansion. Role includes PID preparation datasheet preparation for instruments, Hydraulics and surge analysis and Conducted HAZOP.

**5. PRESSURISATION OF HYDROGEN – SWEENEY AND CONVENT SMR, U.S.A**

**Client: IHI Corporation**

**Major Responsibilities:**

Working for workshare project, scope includes PID development, detailed sizing of PSVs and Control valve Hydraulics.

**WORLEY INDIA PVT LTD, MUMBAI, INDIA**

November 2018 – June 2019

**Designation: Engineer I – Process**

**Department: Process Engineering - GDC**

**PROJECTS HANDLING/HANDLED:**

**1. FEED AND DETAILED DESIGN OF NABIYE ENHANCE PROJECT, CALGARY, CANADA**

**Client: Imperial Oil Limited (Exxon mobil)**

**Major Responsibilities:**

Working for workshare project, scope includes review of basic engineering documents, HYSYS model development, sizing calculation of 2/3 phase separators, pump hydraulics, PSV sizing, line hydraulics, control valve sizing, vent stack sizing and vent header analysis on Flarenet model.

**2. RE-FEED OF SAGD PILOT FACILITY, CALGARY, CANADA**

**Client: Imperial Oil Limited (Exxon mobil)**

**Major Responsibilities:**

Working for workshare project, scope includes review of basic engineering documents, HYSYS model development, sizing calculation of 2/3 phase separators, pump hydraulics, PSV sizing, line hydraulics, control valve sizing, vent stack sizing and vent header analysis on Flarenet model.

**TATA PROJECTS LIMITED, MUMBAI, INDIA**

January 2014 – November 2018

**Designation: Deputy Manager (Process)**

**Department: Engineering - Oil, Gas & Hydrocarbon (OGH) Business Unit**

**PROJECTS HANDLING/HANDLED:**

**1. EPC OF FLUIDS SERVICING SYSTEMS INCLUDING FIELD INSTRUMENTATION OF SEMI CRYO INTEGRATED ENGINE TEST FACILITY (SIET), MAHENDRAGIRI, INDIA**

**Client: Indian Space Research Organization (ISRO)**

**Major Responsibilities:**

Role includes review of process design reports, PSV sizing, hydraulics, chiller heat load calculations and participation in HAZOP study.

## 2. MADANAM CPF & PIPELINES, CAUVERY ASSET, INDIA

**Client: Oil and Natural Gas Corporation (ONGC)**

**Major Responsibilities:**

Role includes review of FEED & Basic engineering, HYSYS v.09 model development, PSV sizing, hydraulics, utility vessel sizing, and participation in HAZOP study. Vendor drawing/document review of packages like hydrocarbon dew point depressant (DPD), Gas Compressor system, flare system, heat exchangers, indirect bath heater.

## 3. SAFE ROUTING OF SAFETY VALVE DISCHARGE AT RR & ADR, ABU DHABI, UAE

**Client: TAKREER - Abu Dhabi Oil Refining Company**

**Major Responsibilities:**

Deputed to Abu Dhabi office for 7 months to coordinate with Client and DEC.

Role includes Review of FEED, Basic & Detailed Engineering, preparation of marked-up P&ID's based on shutdown & post shutdown activities, tie-in package, participation in HAZOP study and vendor drawing/document review of packages like Flare KOD, Pumps & PSV.

## 4. CHEMICAL TERMINAL AT HFZ, SHARJAH, UAE

**Client: Hazel Mercantile Ltd**

**Major Responsibilities:**

Role includes Review of FEED, Basic & Detailed Engineering, calculations on Heat loss through storage tanks, hydraulics, Venting Requirements as per API 2000, Chiller load. Vendor drawing/document review of Process & Mechanical packages like chemical dosing system, pumps, chiller package, thermic fluid heater, and drum filling unit.

On 2 months deputation to site office in Sharjah for pre-commissioning and commissioning activities of process/utility packages.

## ACADEMIC DETAILS

### **B.E, Chemical, 2013**

Mumbai University

### **Higher Secondary Education, Science, 2009**

Maharashtra State Board

### **Secondary School Certificate, 2007**

Maharashtra State Board

## PERSONAL INFORMATION

Date of Birth	: 24-Aug-91
Gender	: Male
Languages Known	: English, Marathi & Hindi
Nationality	: Indian
Marital Status	: Single
Passport No.	: M2115427, valid up to 21-Sep-2024
Hobbies	: Gadget Freak, Web Savvy and Blogging
Reference	: Available on request

## ADDITIONAL INFORMATION

### **PROFESSIONAL MEMBERSHIP**

1. The Institution of Engineers, India (Associate Member, ID: AM190055-5)
2. American Institute of Chemical Engineers (ID: 009901409530)

### **PROFESSIONAL CERTIFICATION**

1. Aspen Certified User in Aspen HYSYS (ID : 00004976)
2. Chartered Engineer, India (ID: 014524)

## **COMPUTER PROFICIENCY**

Process Simulation Packages : Unisim, HYSYS  
Steady state Analysis : Basic knowledge of PIPESIM, AFT Fathom  
Transient Analysis : Basic knowledge of AFT Impulse  
Flare Network Modeling : Flare net  
Heat Exchanger Thermal Design : HTRI  
P&ID Related : COMOS, Auto CAD  
Programming language : Visual Basics, Basics of Python  
Others : Bluebeam, Ms office, Visio

## **DECLARATION**

I hereby declare that all experiences and educational qualifications mentioned above are true to the best of my knowledge and belief.

Date:

Yours Truly  
(Avinash A. Patil)