CURRICULUM VITAE

NAME	**Jitenkumar Mehta (CEng MIChemE)**
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Current Location	**Dubai, UAE**
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CURRENT POSITION	**Lead Process Engineer with Worley Engineering (Advision Consulting), Abu Dhabi, UAE**
DESIRED POSITION	Principal / Lead Process Engineer
DOB / NATIONALITY	22nd April 1984 / Indian
WORK EXPERIENCE	Total Experience: 18.0+ Years
INTERNATIONAL CERTIFICATION	Chartered Engineer (CEng MIChemE), with IChemE, UK (Membership No.99969301) and UK Engineering Council (Reg No 682427).
QUALIFICATION	Bachelor of Engineering - Chemical Engineering (Year - 2001 to 2005)

CAREER PROFILE

Result oriented professional having 18.0+ years of experience in providing process engineering services to Greenfield and Brownfield Concept / Feasibility / FEED / EPC projects in the field of Oil & Gas, Refinery and Petrochemical Industries.

PROFESSIONAL RESPONSIBILITIES

Currently working as Lead Process Engineer. Responsibilities include as below:

- Contract review, Project Kick-of-Meeting, Budget man-hours, Process TDR, Project schedule for process deliverables
- Drive Concept / Pre-FEED projects by engaging with stack holders, client representative, to understand and define the study objectives, KPIs, data collection, technical constraints parameters, economic parameters, etc.
- Develop and define the concept screening criteria, technical options development, available technology assessment, arranging concept development workshops with stakeholders, etc.
- Inter-discipline coordination for smooth engineering workflow involving process and other disciplines.
- Plan and execute key concept study activities including estimation of Class-3/4/5 CAPEX / OPEX, preliminary safety studies, constructability and operability, environmental assessment, economic assessment including cost benefit analysis (NPV, UTC), preliminary project schedule, etc.
- Develop the criteria and weightage for screening different concept options, comparison, pros and cons, option ranking and recommendation.
- Process Engineering in compliance with contract requirement, Scope of work, international codes/standards, company QMS procedures, etc.
- Leading safety workshops such as Design Review, HAZOP, LOPA, SIL, etc. as lead process engineer.

TECHNICAL SKILLS

- Well Conversant with entire process engineering activities including equipment sizing, process modelling / simulations, PFDs, P&IDs, Process Philosophies, Process calculations, datasheets, etc.
- Thorough understanding on inter-discipline interface and implications across various engineering discipline. Fair understanding of other discipline engineering such as I&C, Piping, HSE, etc.
- Strong fundamentals and value engineering approach to provide cost optimimum solutions
- Well versed with international codes & standards and reputed operating company's specifications.
- Excellent know-how of design and engineering on below Oil & Gas Facilities,

- ✓ Gas Processing units including Gas Dehydration Units (GDU), Acid Gas Removal / Gas Sweetening Units (AGRU/GSU), Gas Dew Pointing, Recovery Units, etc.
- ✓ Gas Compression packages such as LP/HP Flash gas compressors, Acid gas compressors, High pressure Injection compressors, etc.
- ✓ Oil Processing trains including Oil/Gas Separation, Dehydration & Desalting and Oil Sweetening
- ✓ Produced Water Treatment Units meeting disposal specifications

EMPLOYMENT EXPERIENCE	
Jan-2023 to Continue	**Worley Engineering (With Advision Group), Abu Dhabi, UAE**
	Lead Process Engineer

Project: Ruways LNG Pre-Conditioning Plant (RLPP), Habshan-5, ADNOC Gas

Client: ADNOC Gas, Abu Dhabi, UAE

Project Phase: DEFINE (FEED)
Job Responsibility: Sub Lead Engineer

RLPP facilities, an extension of MERAM facility, includes the scope of new gas processing units including feed gas compressors, AGRU, Mol. Sieve units, in addition to modification and adequacy check of MERAM gas treatment units including AGRUs, modification of Mol. Sieve Unit, adequacy check of existing Habshan-5 SRU, TGTU and NGL recovery units. Scope also includes new utilities and offsites and integration with existing MERAM/Habshan-4 facilities.

Projects: LNG HHV Enrichment Study, ADNOC Gas
Client: ADNOC Gas, Abu Dhabi, UAE
Project Phase: ASSESS Stage Study
Job Responsibility: Lead Process Engineer

ASSESS study is carried out for to assess various feasible options to increase heating value of lean sales gas coming from MERAM before it is fed to RLNG facility, while keeping the other FLNG feed gas specification within the limits. Options include a new fractionation train to extract heavier hydrocarbon for blending within Habshan Complex / Habshan-5.

As a lead, I was responsible for all of process engineering activities, Multi discipline coordination, schedule compliance, leading the workshops such as technical alignment, options idnetification, brainstorming workshop, option screening workshop, cost estimation workhsop, Option ranking workshop, technical presentation, etc., held various meeting with client for comment resolutiona and approval of process documents, and pariticpated as process lead in various HSE workshops

Project: Shah Gas 1.85 BSCFD Expansion Project

Client: ADNOC Sour Gas, Abu Dhabi, UAE

Project Phase: SELECT & DESIGN Study

SELECT and DESIGN stage techno economic study carried out in accordance with ADNOC VAP procedure to increase the processing capacity of existing Shah Gas Plant from 1.45 BSCFD to 1.85 BSCFD. Concept Select/Design Scenario includes different configuration of SRU Train, Air mode to Oxy Mode, New AGRU Train, New NGL and Modification in Liquid Condensate Handling capacity. Study also includes techno economic analysis of capturing CO2 by Cold Flash vs Solvent Technologies.

Main role was carrying out adequacy of overall Utilities and Offsites systems including Steam, DM, BFW and Condensate system, STGs, IA & PA, Warm Flare and Acide Flare, Cooling Water Refrigeration System, Fuel Gas system, Power Consumption, etc. Adequacy was carried out inline with AGES and TE-GU guidelines and modification options were evaluated.

July-2021 to Dec-2022	**Wood Group PLC, Dubai, UAE**
	Lead Process Engineer

Projects: New Oil Processing Trains at North Rumaila, Iraq
Client: BP-ROO, Iraq
Project Phase: Concept Study + FEED
Job Responsibility: Lead Process Engineer

To increase the oil production from existing Rumaila field with increasing water cut, a new greenfield oil production facility is being proposed. The facility will include off plot area including new well heads, flowlines, manifold, trunkline etc. and 2 x oil production trains each of 120,000 BOPD capacity.

Oct-2020 to July-2021	**Woodlands Energy Services DMCC (WoodServ), Dubai, UAE**
	Lead Process Engineer

Projects: Brownfield Modification for Musandam Gas Plant (MGP), Oman
Client: Musandam Oil & Gas Company LLC (Subsidiary of OQ E&P, Oman)
Project Phase: Concept Study + FEED
Job Responsibility: Lead Process Engineer

Production from Oman Offshore Block-8 is being processed at Onshore Gas Processing Facility (MGP). Concept Study was performed for adequacy of existing gas processing and condensate stabilization units at depleted arrival pressure to maintain the existing plant capacity. Outcome of study shall provide various modification options and subsequently FEED performed on selected concept option.

Project: Diyab Gas Export Pilot Facility
Client: ADNOC + TOTAL E&P – Unconventional Gas, Abu Dhabi, UAE
Project Phase: EPC+O&M (Greenfield)
Job Responsibility: Lead Process Engineer

It is a greenfield EPF. The major gas processing units include, Well head Flowlines and Pipelines, Production Separator, Test Separator, LP Compressor Package, TEG Gas Dehydration Package, HP Compressor Package, Depressurization and Flare Systems, and associated utility and chemical injection packages.

Oct-2014 to Aug-2020	**Petrofac International LLC, Sharjah, UAE**
	Sr. Engineer – Process

Project: Rabab Harweel Integrated Project (RHIP), Sour Gas Processing Facility, Oman
Client: Petroleum Development of Oman (PDO) + Shell (SGSi)
Project Phase: Mega EPCM (Greenfield)
Job Responsibility: Area Lead (Sub Lead)

RHIP is one of the largest and highly sour (5.6% H2S & 25% CO2) Oil & Gas facilities in the region. The new CPF facility consists of - Oil Processing Train of 60,000 BOPD export capacity, Gas Treatment Units for 6.0 MSm3/day sweet gas production and High-pressure Sour Gas Injection Compressors (max. 450barg) for 16.0 MSm3/day sour gas injection.

As Area Lead, I have handled:

- TEG Gas Dehydration Unit (GDU) - Gas Sweetening Unit (GSU)
- Oil Processing Section - Acid Gas Compressor Unit.

Associated with project from start to its construction phase.

Projects: New Train of TEG Gas Dehydration Unit (GDU) (4.4 MSm3/day Gas)
Client: Confidential (Algeria Based)
Project Phase: Proposal Stage In-house Basic Engineering

Major activities carried out was developing simulation cases of TEG unit, preparation of PFDs, Equipment specification, verify ITT H&M Balance, optimize equipment sizing, review pre-bid vendor offers, technology selection for VRU unit, etc.

Projects: DS03 Phase-2 (North) 100 MBOPD Oil Production Train + 370 MBWPD New PWT Facility
Client: BP-ROO, IRAQ
Project Phase: FEED + EPC (Greenfield + Brownfield)
Job Responsibility: Process Lead

Project scope included, new production train, brownfield modification of existing units, new produced water treatment facility, new relief and flare systems, utility units, chemical injection units, etc.

Project: DS02 New Produced Water Treatment (PWT) Facility, Rumaila Oil Field, Iraq
Client: BP-ROO, IRAQ
Project Phase: Pre-FEED (Greenfield + Brownfield)

June-2014 to Sep-2014	**Tebodin India Pvt Ltd (Deputation to Abu Dhabi, UAE)**
	Process Engineer

Project Title: UMM Saif Offshore Field Modification Project, UAE
Client: ADMA-OPCO, Abu Dhabi, UAE
Project Phase: FEED (Brownfield)

Main Activities undertaken as below

|| Dynamic Depressurization Study Report || Flarenet Study Report || KOD sizing ||
|| Hydrate Study using HYSYS || Chemical Injection pump hydraulics || RO sizing& Instrument Datasheet || Process Equipment Datasheet || P&ID review / HAZOP review active participation ||
|| Isolation philosophy || Operating & Control philosophy

Sep-2013 to Jun-2014	**Specialist Services LLC, Dubai, UAE**
	Process Design Engineer

Project Title: Sudan Oil Field Development Project – Early Production Facility
Client: Schlumberger Oil Field Services, UAE
Project Phase: FEED Verification + Modular Package EPC

Project scope includes Feed Verification and Detail Engineering of complete 10,000 BOPD Oil Processing facility which includes, inlet separators, stripping columns, pumps etc.

Feb-2010 to Sep-2013	**Tecnimont ICB, India**
	Principal Process Engineer

During my tenure in Tecnimont, I worked as key resource in large scale EPC projects. I had hands on experience on almost all key process engineering activities as below

PFD || P&ID || H & M Balance || Stream list || Line Hydraulics || Pump Hydraulics || Control valve hydraulics || Compressor Settle-out pressure Calculation || Vendor document review || Technical meetings with Vendor || Separator Sizing || Exchanger Sizing/Rating || Process Datasheet || Instrument Datasheet || Relief Calculation || PSV sizing || HAZOP Participation || FAT participation, etc.

I was also deputed to licensor's office, Eni Versalis (Italy) for preparation of process design package for one of the EPC projects.

The list of the projects I worked upon are as below

(1) Project Title: 950 - MTPD – Synthesis Gas Section- AFC Project, India
Client: NFL, India
Licensor: KBR, USA
Project Phase: Large LSTK

(2) Project Title: 340 – KTPA – Polypropylene Plant for ONGC-Petro Addition Ltd. (OPaL), India
Client: ONGC Petro Additions Limited (OPAL), India
Licensor: INEOS, USA
Project Phase: Large LSTK

(3) Project Title: 141 – KTY – ESBR Plant at Hazira Petrochemical Complex, Reliance
Client: Reliance Industries Limited (RIL), India
Licensor: Polimeri Europa, Italy
Project Phase: Large EPCM

(4) Project Title: 300 – KTY – LDPE Plant at EXXI Petrochemical Complex, Mexico
Client: Braskem Idesa S.A.P.I., Mexico
Licensor: BASELL, Italy
Project Phase: Large LSTK

Sep-2008 to Feb-2010	**Alpha Project & Services Ltd., India**
	Senior Engineer - Process

Project Title: Guru Gobindsinh Refinery Project

Client: Engineers India Limited (EIL)
Project Phase: Consultancy Services for HTRI Design

Project scope includes thermal design of Shell & Tube heat exchanger for entire facility using HTRI

Project Title: New Agrochemical Complex
Client: Meghmani Industries Ltd.
Project Phase: EPC

Project process scope includes supply for process design package (PDP) which shall cover Heat & Mass balance, PFD, P&ID, Process Datasheet, Instrument Datasheet, C&E effect, Process calculations, Vendor coordination and vendor document reviews to ensure equipment is manufactured as per engineering specification and code requirements.

May-2007 to Sep-2008	**GEA Process Engineering India Pvt Ltd(Formerly L&T Niro Ltd)**
	Process Engineer

Project Title: Hexane Moisture Removal, FBD Plant
Client: Indian Oil Corporation Limited (IOCL), India
Project Phase: EPC

Detail Engineering Activity includes, preparation of P&ID, PFD, Interaction with licensor and ensure licensor input is incorporated into engineering deliverables, equipment datasheet, instrument process datasheet, PSV sizing, Flare calculation, Hydraulic calculation

Oct-2006 to Apr-2007	**ATUL Limited**
	Asst. Manager

Looking after total production, modification and troubleshooting of the DCS operated Multicomponent Vacuum Distillation Plant.

- Daily Mass balance and Energy balance to evaluate the performance of the plant
- To achieve production target and improve the efficiency of distillation
- Process modifications with coordinating Project Department

May-2005 to Aug-2006	**GHCL Ltd. (India)**
	GET – Graduate Engineer Trainee (Campus Selection)

- Spearheaded plant (Feeding Capacity 2400 TPD) operations as a Shift In-charge and accountable for planning, troubleshooting, implementation of modification project, process efficiency, etc.
- Handled detail engineering activities such as Line Sizing, pump selection and hydraulics, equipment datasheet, etc. for ongoing capacity expansion project.