# Saeed Abdollahi Nohooji

**Senior Process Engineer**


**Position:** Senior Process Engineer
**Cell phone No:** +968 96528626
**E-mail:** nohooji@gmail.com


**Key Skills**

Highly competent process engineer worked in various types of project in Conceptual, Basic and Detail design phases for oil and gas refineries, worked in several huge projects, fully dedicated to making the project a success, motivated and innovative with lots of new ideas, well trusted by counterparts, very supportive, sharing and great team player, strong in:

- Working experience over whole project life cycle from Concept thorough Basis For Design (BFD), FEED and Detail Design (DD).
- Experience in **simulation** using, **HYSYS**, **PRO-II**, **PIPESIM, FLARENET**, **OLGA, PROMAX, HTRI**
- Experience in **relief** and **blow down studies** and **flare network** sizing
- **Pump Hydraulic** simulation and calculation
- **Equipment sizing** and selection
- **Design review**, process safety and risk assessment (**HAZID**, **HAZOP**, and **IPF**).
- Broad knowledge of specifications, **SHELL DEPs** and **API** standards in process design and safety.
- Familiar with production plants (dehydration and sweetening, oil separation ,storage and export – gas compression)
- **Thermal design** (shell & tube, double pipe and air-cooled heat exchangers)
- Familiar with utility units (flare, water, steam, fuel gas, drain and air)
- Familiar with all engineering disciplines scope of work, deliverables and their interactions, with skills in inter-disciplinary communications to fulfill the project requirements
- Technical Bid Evaluation (TBE) and vendor offers review
- Reviewing process deliverables for compliance with engineering principles, codes and standards, client requirements and specifications, making suggestions and leading to solve the problems
- Knowledge of Quality, Environmental and Health and Safety Management Systems

## Experience

### April 2014 – Present, Tebodin & Partner LLC, Muscat, Oman

**Concept Process Engineer in Al-Ghubar Main Development Project**

**Description**: Project is a concept study of full new station including off-plot and on-plot facilities.
I was involved in on-plot section for selection of station different schemes for bulk Separation, dehydration, stabilization and especially in gas handling and compression section.
Different configuration has been evaluated based on the production forecast provided by client for each decision and based on CAPEX, OPEX, availability, constructability and etc. best option has been selected.

**Process Engineer in Yibal Rejuvenation project (FEED Stage)**

**Description**: This project was comprise of replacement of some equipment and piping due to integrity issues, for instance associated gas compressors, water injection pumps, oil shipping pumps, relocation of two test separators from other station to Yibal A station.

Since lots of production wells has been changed from gas lift to ESP, based on new forecast provided by client calculations has been done and specs and requisition prepared for purchase.

Adequacy check has been done for flare network and relocated test separators.

## May2013 – April 2014, Wood Group-CCC -Muscat, Oman

**Process Engineer in Upstream Brown Field Project**

**Description**: This upstream Brownfield project involved gathering facilities, pipeline and production stations and comprised a number of individual subprojects in concept selection, pre-FEED, FEED and detail design stage.

My tasks included but not limited to preparation of process flow schemes (PFDs), Heat and Material balances (HMBs), P&IDs, Design basis, control philosophy and operating manual. **I also carried out simulations, calculations and equipment sizing as required**. In addition, I prepared Cost, Time and Resource (CTR) estimations. Taking part in Design Review and HAZOP meetings and actions close out were also a part of my role. I got familiar with Shell Global Solution's standards and practices throughout this job. Another achievement during this career episode was handling multiple jobs simultaneously which improved my time management skill.

## May 2005 –May 2013, SAZEH CONSULTANTS (Engineering & Construction)-Tehran, Iran

### November 2010 - May 2013, South Pars Gas Field Phase 19 Onshore Facilities (EPC)
### Senior Process Engineer in Dehydration, Sweetening, Ethane Recovery & Export – gas compression

**Description:** The total capacity of Phase 19 onshore facilities is 2000 MMSCFD of reservoir fluid. Phase 19 Onshore complex will include all processing units, offsite, and infrastructure necessary to produce sales gas to domestic gas network, ethane gas to the nearby petrochemical complex at the required specification, commercial grade propane and butane for export, solidified Sulphur and stabilized condensate for export.
A part of this project is gas treating units consist of;

- Selective H2S removal from the sour gas is based on the use of generic MDEA treatment process.
- Dehydration unit, using molecular sieves technology
- Mercury guard
- Ethane extraction unit producing sales gas, gaseous ethane and NGL's

**Responsibilities: Simulation of gas treating unit and ethane recovery unit using HYSYS software**, Check and completion of equipment process data sheets, P&ID development, preparation of instrument process data sheets, preliminary PSV sizing, pump hydraulic calculation, **Heat exchanger thermal design using HTRI software**, Technical Bid Evaluation of vendor documents for equipments, completion of line list, preparation of utility summary list, preparation of cause & effect diagrams, attending in HAZOP and SIL study meetings.

### August 2008 -November 2011, Anahita Oil Refinery (Basic Engineering)

### Process Engineer in Off-Site Tankage, Interconnection and Flare Units

**Responsibilities:** Preparation of design basis Preparation of PFD's & P&ID's preparation of equipment process data sheets preparation of instrument process data sheets line sizing PSV and flare network sizing preparation of utility summary list preparation of cause & effect diagrams, pump hydraulic calculation completion of line list attending in P&ID review meetings
**Simulation and sizing of flare network of refinery based on overall design case using Flarenet software**.

### May 2006 - August 2008, Shahzand Arak Oil Refinery Expansion and Products Upgrading (EPC)

### Process Engineer in Off-Site Tankage, Interconnection and Flare Units

**Description:** The project intends to implement an expansion revamp and products upgrading and also to investigate the impacts of this revamp and expansion on the overall operation of existing units and facilities of ARAK Refinery.
A part of this project that I was involved is Off-site and Tankage area.
The flare system to be installed for new units consists of followings:

- Hydrocarbon Flare System
- Acid Flare System

**Responsibilities:** Check and completion of equipment process data sheets P&ID development preparation of instrument process data sheets PSV and flare network sizing preparation of utility summary list preparation of cause & effect diagrams Pump hydraulic calculation completion of line list.
**Simulation and sizing of flare network of refinery based on overall design case using Flarenet software**.
Technical Bid Evaluation of vendor documents equipment attending in P&ID review meetings attending in HAZOP meetings attending in SIL study meeting.

### May2005 - May 2006, HDPE, Complex in Kermanshah

**Responsibilities:**
Preparation of utility distribution diagrams.
Line sizing of utility lines
Preliminary flare network sizing

## Software Experience

- **Engineering:** HYSYS (process simulation)
  PRO II (process simulation)
  PIPEPHASE (pipeline hydraulic simulation)
  HTRI ASPEN B-JAC and HTFS+ (thermal design of heat exchangers)
  SRVS (PSV sizing)
  FLARENET (flare network sizing)
  PHAST (consequence analysis)

- **MS Office:** Word, Excel, PowerPoint, Visio

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**Training Courses**

- HSE induction, NTI, Muscat, Oman
- H2S awareness, NTI, Muscat, Oman
- Initial Fire Response, NTI, Muscat, Oman
- Flow assurance studies with **OLGA**
- Heat exchanger thermal design using **HTRI** software
- Flare network sizing using **FLARENET** software
- Flare load calculation
- Advanced simulation using **HYSYS** software
- Simulation and design course with **ASPEN**( Aspen plus, Aspen water)
- Simulation course using **PROII** software
- Consequence analysis using PHAST software

**Education:**

B.Sc. in Chemical Engineering, Azad University, Shahreza, Iran, 2000-2004