

# Homayun Mohasel zadeh

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## Senior Process Leader

### Leading projects to Success | Developing Project Specifications to Exceed Client Expectations

Result-oriented achieving project objectives through Collaboration & creative planning, risk-based decision making and quality assurance program. Derives team to thoroughness and fit-for-purpose in order to deliver most complete accurate project definition. Expertise in technical evaluation leveraging simulation tools to model downstream processes (refineries, petrochemicals) for revamps / grassroots projects, heat & material balances, PFDs, equipment specification, plant troubleshooting. Project management expertise include project planning, scheduling, setting priorities, drafting project specifications, defining project standards, interface management, MOC and contractor management

**work style:** positive attitude, driven, approachable, flexible, consistent, performs under pressure, open to criticism, makes decision with minimum input

- Project scoping & definition
- Project Planning, scheduling, resourcing, coordinating
- FEED & EPC Development
- Commissioning, Start-Up, Troubleshooting
- Debottlenecking, energy optimization
- Technical Support, Root cause analysis
- All-Round process engineering
- Pro-II, Hysys, HTRI, Conval, Visio, SharePoint
- Sound Engineering Judgment
- Risk-Based Decisions

## Professional Experience

**ExxonMobil**, Houston, TX

**2005 - 2020**

### Senior Process Engineer

Employed by ExxonMobil from 2005 - 2020, in Project Development Division, working in various countries, supporting and leading cross functional project teams in variety of complexity and type. Below is a highlight of most relevant experience

**EM-Licensing & Catalyst**, Houston, TX

**2019 - 2020**

### Senior Process Engineer

GS Caltex MTPX Revamp Project. Directed design team to evaluate 50+ equipment impacted by project expansion proposing practical, low cost revamp solutions anticipating potential execution strategies

- Delivered high quality Project Design Basis within 5 months schedule Exceeding client's expectations
- Minimized Revamp scope and cost by optimizing process simulation model and in-depth evaluation of 30+ exiting equipment
- identified new applicable innovative technologies, boosting existing equipment output 10 - 15%
- Identified most execution friendly option for stabilizer tower modification

**BCEP Project G\$ 0.8**, Houston, US

**2018 - 2019**

### Front End Engineering Design Lead

Responsible for Producing Abbreviated Design Specification and Front-End Engineering Design (FEED) within a highly schedule driven project environment.

- Led activities associated with scoping 30+ different systems (utilities, civil, logistics, etc.), interfaces to produce Project Design Basis.

- Coordinated and led stakeholders' discussions with 10 various impacted entities such as Refinery, ChemPlant, Olefins Plant, Pipeline company, Logistics, site engineering, manufacturing to align on scope, priority and timing
- Managed Tankfarm development comprising 7 atmospheric tanks, executed from India based team

#### **Staff Process Engineer Antwerp Refinery, Belgium**

2017

##### **Staff Process Engineer**

Provided general process engineer support at site and responsible for developing project specification for Antwerp refinery and Antwerp Polymer Plant, < M\$50

- Managed to reduce project backlog by developing 6 revamp projects through effective planning and enhanced project definition efficiency
- Troubleshooted Pentane, Iso-Pentane truck loading facilities, leading to 5% increased truck loading during summer times
- Completed Crude Tank Firefighting feasibility study addressing existing high-risk operation of tanks
- Reduced HVGO export cost by 30% optimizing project scope

#### **Saudi Butyl Project JV - KSA, Jubail**

2012 - 2016

##### **Lead Process Engineer - Epc, Construction, Start-Up, Improve**

Served as single point of contact for process engineering issues during EPC, site construction, commissioning and start-up.

- Managed overall quality of process engineering deliverables, excess of 1000+. Responsible for Mechanical Completion acceptance of sub-systems
- Adhered to No change philosophy keeping project changes to an absolute minimum, less than 5% only related to safety or errors
- Spearheaded start-up readiness reviews of 15+ sub-system identifying and fixing problems with key systems such as catalyst delivery system
- Led commissioning activities of 5 unloading systems Benzene, MeCl, Slops, Isoprene, Bromine
- Preventing potential project delays, 2 months, by leading Tower road accident investigation team making decision to continue tower transportation to site
- Developed Alarm Management Access Database in parallel to Process Control team reducing start-up readiness timing by 3 months

#### **Staff Process Engineer Antwerp Refinery, Belgium**

2011 - 2012

##### **Staff Process Engineer**

Provided general process engineer support at site and responsible for developing project specification for Antwerp refinery and Antwerp Polymer Plant, < M\$50

- Managed to reduce project backlog by developing 10 revamp projects through effective planning and increased efficiency
- Developed new work process, 8 - 10, procedure development increasing project definition and execution efficiency

#### **Staff Process Engineer Baytown Complex, Baytown, TX**

2008 - 2010

##### **Staff Process Engineer**

Provided general process engineer support at site and responsible for developing project specification for Antwerp refinery and Antwerp Polymer Plant, < M\$50

- Developed concept and design specification for 4 -5 Aromatics towers overfill protection
- Spearheaded evaluation of 15+ machinery and heat exchange equipment as part of overall Aromatics Restructuring Project
- Managed evaluation of Recycle Gas Compressor associated with Baytown Olefins Plant 2012 Turn Around

#### **Additional Positions**

**Staff Process Engineer** - ExxonMobil Refinery & Aromatics plant, Rotterdam, Netherlands

2005 - 2007

**Process Engineer** - Fluor, Netherlands

1999 - 2004

## Education

**Master of Science (MS)**, Chemistry / Chemical Engineering, University of Amsterdam, Amsterdam, Netherlands

## Professional Development

### Technical & Project Management trainings

- Leadership Training - North Carolina school of Business Leading Teams
- Project Quality Management
- Process Design Methods
- Utilities
- Reliability in Design