

Curriculum Vitae



Personal Details

First Name: Mahdi
Surname: Razifar
Nationality: Iranian
Place of birth: Khoy (IRAN)
Date of Birth: 15 May 1979

Educational Background:

- Sep 2003 – Des 2005** MSc. Chemical engineering from Iran University of Science and Technology (IUST), WWW. IUST.AC.IR
Certificate: M.Sc. in Chemical Engineering / Process Design, Simulation and Control. Graduated
MSc Thesis Title: *kinetic modeling for hydroisomerization of normal paraffins*
- Sep 1998 – Nov 2002** BSc. Chemical engineering from Iran University of Science and Technology (IUST), WWW. IUST.AC.IR
Certificate: BSc. in Chemical Engineering / Process Design
BSc. Research Topic: *Introduction of Natural gas dehydration processes*
- Sep 1993 – Jun 1997** Mathematics-Physics in Modarres High School, Khoy - IRAN.

Work Experience:

- **Manager of Refining Engineering Group** in petroleum refining division in Research Institute of Petroleum Industry (RIPI).WWW.RIPI.IR. The major activities are:
 - **Project partner** in basic design of Methanol to Propylene (MTP) at Petrochemical Research and Technology Company for.

- Project partner of basic and detail design of pilot plant for dehydration and demercaptanization of propane and butane for SPGC phases 9, 10 and chairman of HAZOP Study team.
- Process Design of Methyl Acetate Production Unit for Tejarat Aftab Company.
- Process Design of Vacuum Distillation Unit (VDU) for Tejarat Aftab Company.
- Revamping project of existing Atmospheric Distillation Unit for Tejarat Aftab Company.
- Feasibility study of new CDU & VDU units with the feed capacity of 650,000 t/y condensate and heavy crude oil in different scenarios for Tejarat Aftab Company.
- Project Manager of: Market study of the current status of production and consumption of high quality base oils in Iran and the worldwide, Economic study of the production process for the base oil group III from lube-cut, study of the positive effects of the GTL wax upgrading processes to improve its economy and Study on the wax upgrading catalysts.
- Conceptual design of surface facilities for HOMA Gas field (Simulation of the onshore production facilities & production pipeline network and cost estimation.
- Project Manager of Bitumen Blowing Unit Project for Syrian Oil Refinery.
- Project Manager of “Technology Survey for Processes of Production of Base Oils: Group II & III”.
- Project partner of project of Reservoirs Studies of AHVAZ and YADAVARAN Oil fields with the aim of modeling, development and providing operational solutions; in RIPI
- Project partner of “Detail Design of demercaptanization of condensate (DMC) unit for phases 2-3 of south pars gas field with the capacity of 80,000 BPD”
- Project partner with Tehran Energy Consultant (TEC) in technical judgement of Crescent Contract tribunal, in process discipline (Gas Export from Salman platform to Sirri & from Sirii to Mobarak platform).
- Technical Proposal for Indonesian Condensate Refinery with the capacity of 150000 BCPD.
- Project partner of basic design of Visbreaker Unit for Syrian Oil Refinery.
- Simulation and process equipments design for Topping Project (Bitumen production from vacuum bottom) for Indonesian Refinery.
- Head of Simulation for Topping Project (Bitumen production from vacuum bottom) for SAHAR Oil Refinery Co.
- Conceptual design of surface facilities for EOR Pilot of YADAVARAN oil field.
- Conceptual design of surface facilities for ABTEYMOUR oil field (Simulation of the onshore production facilities & production pipeline network and cost

- estimation (Capex+Opex) with Questor software for all of the production scenarios).
- Conceptual design of surface facilities for TOUSAN oil field (Simulation of the onshore and offshore production facilities & transmission pipe line hydraulic calculations and cost estimation (Capex+Opex) with Questor software for all of the production scenarios).
 - Conceptual design of surface facilities for BALAL oil and gas fields (Simulation of onshore and offshore production facilities & transmission pipe line hydraulic calculations and cost estimation (Capex+Opex) with Questor software for all of the production scenarios).
 - Project manager of “Basic design and detail review of demercaptanization of condensate (DMC) unit for phases 22-24 of south pars gas field with the capacity of 80,000 BPD”
 - Project manager of “Basic design and detail review of demercaptanization of condensate (DMC) unit for phase 13 of south pars gas field with the capacity of 80,000 BPD”
 - Simulation of DMC unit for phases 2,3; 4,5; 9,10; 12; 13; 14; 17,18; 19; 20,21,22-24 of south pars gas field with the capacities of 80,000 BPD with hysys software.
 - Simulation of BANDAR ABBAS Oil Refinery Co. distillation unit for new feed formulation.
 - Project manager of “modeling of wax deposition on the crude oil stripper column trays”
 - Simulation of ethylene recovery unit for HRCE process.
 - Project Manager of Basic Design and Detail Design of Sulfur degassing unit for Shahid Hashemi Nejad Gas Processing Company in Koosha Metal Industries Co and chairman of HAZOP Study team.
 - Project Manager of Basic Design of New Vacuum Distillation (VDU) Unit for Bitumen and Lubcut production of LAVAN Oil Refinery Company in Petro Paguhesh Sharif Co.).
 - Technical Consult of SEKAF Technical & Construction Co. for EPC projects of Khonj & Jahrom Gas Compressor Stations
 - CO2 Capture from stack flue gas of MAPNA power plants for injection in to beside oil fields for EOR purposes for Tehran Energy Consultant Company.
 - Conceptual design of MAPNA Condensate refinery with the capacity of 60000 BPSD
 - Conceptual design of PETRO PALAYESHE SHARGHE KHAVARMIANEH Condensate refinery with the capacity of 60000 BPSD
 - Conceptual design of DANA Condensate refinery with the capacity of 60000 BPSD
 - Simulation of municipal solid waste gasification in fix bed reactor
 - Simulation of the distillation unit of the LAVAN oil refinery and debottlenecking of this unit for the purpose of the plant capacity increment.

- Basic design of Sour Water Stripping (SWS) unit for Tehran Oil Refinery Co. (TORC).
- Process design of MOS (Mobile Oil Separator) for SABAN SANAT Co.
- Design of PDA-TAR/DAO heat exchangers for IRANOL Co.
- Simulation of Used Oil process.
- Simulation of Ethylene Oxide production process.
- Simulation of Ethyl Acetate process with Aspen Plus for Petro Sakht Co.
- Simulation of Ammonium Bicarbonate production process with Aspen Plus for Petro Sakht Co.
- Co-operated with IRAN ITOK Consultant Company for simulation of gas condensate production facilities for sarajeh gas field and design of related equipment's such as heat exchangers and separators.
- Co-operated with ENERGY GOSTAR SINA for simulation and design of oil and gas surface facilities for RIG, DUDRO and SHUROM field.
- Co-operated with TAM Irankhodro for MTO preparation of heat exchangers for Kish gas refinery tender.
- Employee of Fiber Chemical Co. as a process engineer for basic and detail design of ammonium sulfate recovery unit as a part of Acrylonitrile plant (2009).
- Employee of Research Institute of Petroleum Industry (RIPI).WWW.RIPI.IR. as a researcher to design integrated courses in upstream and downstream industries (2007-2009)
- Experimentation with hydrogen peroxide rockets (2006-2007)
- Experimentation with hydrogen peroxide concentration with vacuum distillation and Reboiled Absorber with Dry Air (2006-2007)
- Co-operated with MMTE Co. as a researcher to simulation of MIDREX@ PROCESS (direct reduction of iron oxide to produce metallic iron) with ASPEN PLUS simulation software (2006-2007)
- Co-operated with Fiber Chemical Co. as a researcher to simulation of Acrylonitrile production process with HYSYS and Aspen Plus simulation softwares (2005-2006)
- Co-operated with Behran oil Co. as a part-time researcher in the R&D department.WWW.BEHRANOIL.COM (2004 –2006)
- Worked as an Research Assistant with Dr. Maghsoudi,Chairman of Chemical Engineering Faculty of Iran University of Science and Technology (2003-2005)
- Conducted a research for Iranian Oil Company about Natural Gas Dehydration Process and Simulation of this unit with HYSYS

Teaching Experience:

- Trainer of ASPEN PLUS, HYSYS, HYSYS DYNAMIC, ProII, PROMAX (Process Simulation Softwares), EDR (Exchanger Design & Rating) and HTRI (Heat Exchanger Design softwares), PIPESYS, PIPESIM (Piping Simulation software), PETROSIM (Petroleum Refining Simulation Software), FLARENET (Flare

Network Design & Rating), *Design of Process equipments course, PFD and P&ID.*

I held a lot of above Courses in Tehran University, Iran University of Science and Technology, Islamic Azad University of gachsaran, Islamic Azad University of guchan, Research Institute of Petroleum Industry (RIPI), Behran Oil Co., Tasha Co., Novin Parsian Training Center, aflak Training Center, Petro Pajuhesh Sharif Training Center, Jihad Daneshgahi Sharif Training Center, Petro Sakht Co., Bandar Abbas Oil Refinery Co., LAVAN Oil Refinery Co., Tehran Oil Refinery Co., Sepanir Oil & Gas Consultant, Havayar Co, Oil Design & Construction Co (ODCC), Oil Engineering & Construction Co. (NIOEC), MAPNA Co., Petrochemical Research and Technology Co., Monenco Co., Esfahan Chemical Industry Co., South Zagros Oil & Gas Company, Shiraz Oil Refinery, Fajre Jam Gas Refinery, Takhteh Jamshid Petrochemical Co., Ilam Gas Refinery and... . (2003 –now)

- Teaching assistant in Iran University of Science and Technology in “*Fluid Mechanics*” Course for 4 terms. Developed new course notes including lecture notes, homework solutions, etc. (2003-2005)
- Teaching assistant in Iran University of Science and Technology in “*Mass Transfer*” Course for 4 terms. Developed new course notes including lecture notes, homework solutions, etc. (2003-2005)

Distinctions and Honors:

- Military service has been completed. (2005-2007)
- Teaching assistant in Iran University of Science and Technology
- Ranked 116th in Iranian nation-wide governmental universities’ entrance examination for Masters’ degree, among 5000 applicants; enrolled in Iran University of Science & Technology as the best and most famous technical university in Iran (2003).
- Deputy of Chemical engineering students in Iran University of Science & technology (1999-2002).
- Began my university life in dormitory independently of my family for 6 years (1998-2002) and (2003-2005)
- Ranked 500th in Iranian nation-wide governmental universities’ entrance examination for bachelor’ degree, among 800,000 applicants; enrolled in Iran University of Science & Technology as the best and most famous technical university in Iran (1999).

Conferences Papers and lectures

- My article “Technology survey in production processes of Base Oils Group II & III” was accepted in “First national Congress of Refining Processes in Tabriz” in Iran (2016).

- My article “Technology survey in production processes of Base Oils Group II & III” was accepted in Iranian magazines of Ravansazha, (2017).
- My article “Base oil production in GTL Process” was accepted in Iranian magazines of Ravansazha, (2017).
- My article “Special Lubricants in Cement Industry” was accepted in Iranian magazines of Ravansazha, (2017).
- My interview "Effective economic factors in the investment of GTL units" was published in Iranian magazines of Ravansazha, (2017).
- My article "Hydrocracking process, the best alternative to the solvent extraction process in the production of base oil" was accepted in Iranian magazines of Ravansazha, (2017).
- My article “*Hydroisomerization of n-Alkanes, Lump kinetic modeling and n-Hexadecane Experiments*” was accepted in “11th International Chemical Engineering Congress” in Iran (2006).
- My article “*Long chain n-alkanes Hydroisomerization process*” was accepted in “10th International Chemical Engineering Congress” in Iran (2005).
- Giving several lectures on *Hydrotreating Process* and *High quality Base Oil Production Process*, which were published in several magazines of Iran like IChE Journal , Ravansazha and Peyame Behran

Text Books

- Mahdi Razifar, “*Process design of 2 phase and 3 phase separators in oil, gas and petrochemical industry*”, Andisheh Sara Publisher, Inc. 2010
- Mahdi Razifar, “*Process equipment design in oil, gas and petrochemical industry*”, Andisheh Sara Publisher, Inc. 2012
- Mahdi Razifar, “*Introduction of the drawing of the process diagrams such as: BFD, PFD, P&ID, UFD, ESD*”, Andisheh Sara Publisher, Inc. 2013
- Mahdi Razifar, “*Simulation of the refinery processes with the PROMAX software*”, Andisheh Sara Publisher, Inc. 2014

Computer Knowledge:

Aspen Plus, Aspen Flarenet, Aspen Icarus, Exchanger Design & Rating (EDR), HTRI, Hysys, Hysys dynamics, Pipesys, Pipesim, ProII, Promax, Petrosim, Proplan, Olga, Photoshop , AutoCAD, Microsoft Office and other windows related programs.

Research Interests:

- Process Engineering, designing process equipment, Scale up, FS (Feasibility Study)
- Catalyst

Interests:

Studying, Teaching, computer and internet, climbing, swimming

Languages:

- Turkish is my mother tongue.
- Farsi (Persian) is my current language.
- English

References:

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