

# **CURRICULUM VITÆ**



# Seyed Shayan Seif

CONTACT INFORMATION

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**EDUCATION** 

Graduate Ph.D. in Chemical Engineering 2010 – 2016

School of Chemical Engineering, Faculty of Engineering, University of Tehran

GPA: 19.33 / 20

Graduate M.Sc. in Chemical Engineering, [Process Design] 2008 – 2010

School of Chemical Engineering, Faculty of Engineering, University of Tehran

GPA: 18.94 / 20

**Undergraduate** B.Sc. in Chemical Engineering, [Refining / Petrochemical] 2003 – 2008

School of Chemical Engineering, Faculty of Engineering, University of Tehran

GPA: **15.79** / 20

DISSERTATIONS

Ph.D. Catalytic Supercritical Water Gasification of Biomass for Hydrogen Production
 M.Sc. Experimental Study of Finned Tubes Bonding Effect on Heat Transfer in HRSG Boilers
 B.Sc. Simulation of Magnesium Stearate Production Process Using Aspen Plus Simulator
 Prof. Sotudeh

PROFESSIONAL CARRIERS AND ACTIVITIES

1 NOT EDUTORITE CHARACTER THE TIGHT TILES				
Senior Process Engineer	Nexo-Pro	2017 - Present		
Project manager	Haami Project Payam Consultants Company	2015 - 2017		
Project manager	ACECR, Tehran Branch	2010 - 2016		
<u>Instructor</u>	Risk Management Workshops	2013 - Present		
<u>Instructor</u>	Carbon Management Workshops	2014 - Present		
<b>Invited Instructor</b>	Islamic Azad University, Tehran	2012 - 2017		
Research assistant	Green Technologies Lab., University of Tehran	2011 - 2015		
Teaching assistant	Faculty of Chemical Engineering, University of Tehran	2010 - 2013		
<u>Apprentice</u>	Tehran Oil Refinery, Wastewater Treatment Plant	2008		
<u>Director</u>	Scientific Association of Chemical Engineering Students	2007-2008		

INDUSTRIAL PROJECTS				
Project Title:	GHG Emission Evaluation from Natural Gas Distribution Network in Yazd Province			
Client:	Semnan Gas Company	Responsibility:	<b>Project Manager</b>	
Contractor:	Oil, Gas & Petrochemical Center - ACECR	Date:	2017	
Project Title:	Methanol Derivatives Screening and Feasibility Study			
Client:	Zagros Petrochemical Company	Responsibility:	<b>Local Associate</b>	
Contractor:	Nexant Ltd.	Date:	2016 - 2017	
Project Title:	Methanol Derivatives Screening and Feasibility Study			
Client:	ThinkXpert Company	Responsibility:	<b>Technical Expert</b>	
Contractor:	Haami Project Payam Consultant Company	Date:	2016 - 2017	
Project Title:	Assessment of Natural Gas Emission Reduction Potenti	als in Gas Distributio	n Network	
Client:	Isfahan Gas Company	Responsibility:	Project Manager	
Contractor:	Haami Project Payam Consultant Company	Date:	2016 - 2017	

Project Title:	GHG Emission Evaluation from Natural Gas Distribution	Network in Yazd F	rovince
Client:	Yazd Gas Company	Responsibility:	Project Manager
Contractor:	Oil, Gas & Petrochemical Center – ACECR	Date:	2016 - 2017
Project Title:	HAZOP Study for Desalting Unit - Ramshir	•	
Client:	NISOC – National Iranian South Oil Company	Responsibility:	HAZOP Scribe
Contractor:	Hirgan Energy Eng. Company	Date:	2016
Project Title:	HAZOP Study for New Demercaptanization Unit in Ilam	Gas Refinery Comp	anv
Client:	Arian Tejarat Mana Company	Responsibility:	HAZOP Leader
Contractor:	Independently	Date:	2015
Project Title:	HAZOP Study for Vacuum Distillation Unit in Lavan Oil F		
Client:	Laval Oil Refinery	Responsibility:	HAZOP Leader
Contractor:	Independently	Date:	2015
Project Title:	HAZOP Study for MDHD Unit	Date.	2013
Client:	Arya Sasol Polymer Company	Responsibility:	HAZOP Scribe
Contractor:	Independently	Date:	2015
			- 2015
Project Title:	HAZOP Study for Sure and Acid Gas Gathering from NGL		HAZOD C 'l
Client:	NISOC – National Iranian South Oil Company	Responsibility:	HAZOP Scribe
Contractor:	Hirgan Energy Eng. Company	Date:	2015
Project Title:	Identification, Assessment and Education of Hazards		of a Comprehensive
,	Procedure for Crisis Management, According to Risk Ass		
Client:	East Azarbayjan Gas Company	Responsibility:	Executive Manager
Contractor:	Oil, Gas & Petrochemical Center – ACECR	Date:	2014 - 2016
Project Title:	HAZOP Study for Oil Production Unit – Chechme Khosh		
Client:	West Oil and Gas Production Company	Responsibility:	HAZOP Scribe
Contractor:	Famor Mehr Persia Company	Date:	2015
Project Title:	HAZOP Study for Oil Production Unit – Naft Shahr		
Client:	West Oil and Gas Production Company	Responsibility:	HAZOP Scribe
Contractor:	Famor Mehr Persia Company	Date:	2015
Project Title:	Hydrothermal Liquefaction of Oily, Biological and Chemi Refinery	cal Sludge to Bio-C	rude Oil in Isfahan Oil
	Refinery		
Client:	Refinery Asre Sarira Industrial Commercial Group	Responsibility:	Technical Manager
Client: Contractor:	Refinery Asre Sarira Industrial Commercial Group University of Tehran	Responsibility: Date:	Technical Manager 2014 - 2016
Client: Contractor: Project Title:	Refinery Asre Sarira Industrial Commercial Group University of Tehran Greenhouse Gas Emissions Evaluation from Gas Transm	Responsibility: Date: ission Facilities in	Technical Manager 2014 - 2016 Iran
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## RESEARCH PROJECTS

- Hydrogen production using supercritical water gasification of waste biomass (Negah No Institute)
- Feasibility study of distillery wastewater treatment using supercritical water (University of Tehran)
- Feasibility study of petrochemical wastewater treatment using supercritical water (University of Tehran)
- Advanced materials production by supercritical fluid technology (University of Tehran)
- Process integration using pinch and exergy analysis
- Simulation of magnesium stearate production process using Aspen Plus simulator (University of Tehran)
- Feasibility study of integrated petrochemical refineries complexes in Iran
- Experimental investigation of fin-to-tube bonding effect on heat transfer characteristics of HRSG boilers in combined cycle power plants (Mapna Group)

#### CERTIFICATES

CERTIFICATIES		
Safety Integrity Level (SIL) workshop	University of Tehran	2012
Designing of Natural Gas refineries workshop	University of Tehran	2011
Gambit & Fluent (CFD Simulation software)	University of Tehran	2009
PDMS (Simulation software)	University of Tehran	2009
Hysys (Simulation software)	University of Tehran	2009
Aspen Plus (Simulation software)	Behran Oil Company	2007

#### **MEMBERSHIPS**

- Iranian National Elites Foundation
- Iranian Energy Association (IEA), Associate Member
- Iranian Association of Chemical Engineering (IAChE), Associate Member
- Iranian Hydrogen and Fuel Cell Association (IHFCA), Associate Member
- Iranian Gas Engineering Association (IGEA), Dependent Member
- Iran Society of Engineering Education, Associate Member
- Alumni Association of Faculty of Engineering, University of Tehran, Member

### **PUBLICATIONS AND PAPERS**

- [1] **Sh. Seif**, "Methods of Error Analysis in Safety Management of Processes and Investigation of Deviations in Operational Parameters", Third National Conference on Safety Engineering and HSE Management, March (2010), Tehran, Iran.
- [2] **Sh. Seif**, "Optimization of the Catalytic Epoxidation of Oleic Acid in Different Types of Reactors and Operating Conditions", National Conference of Chemical Engineering, March (2010), Islamshahr, Iran.
- [3] **Sh. Seif**, A.A. Hamidi, M. Faghedi, "An Experimental Investigation on Performance of Helically Serrated Finned-Tubes with Different Fin-to-Tube Bonding Extent in Forced Convection", International Conference on "Thermal Energy and Environment, March (2011), Madurai, India.
- [4] H. Fatoorehchi, H. Abolghasemi, **Sh. Seif** "Application of Integral Approximation Method to Study Heat Conduction in Triangular Fins", International Conference on Thermal Energy and Environment, March (2011), Madurai, India
- [5] **Sh. Seif**, A.A. Hamidi, M. Faghedi, "Experimental Determination of Thermal Contact Resistance of Helically Serrated Finned Tubes with Different Bonding Extents", 3<sup>rd</sup> Conference on Thermal Power Plants, October (2011), Tehran. Iran.
- [6] S. Yousefzadegan, **Sh. Seif**, M. Niknaam, A.M. Masoudi Ashtiani, Y. Kazemi Ashtiani, I. Pishbin, H. Sheikhani, "Methane Emission Evaluation from Natural Gas Distribution Network in Khorasan Razavi Province of Iran", 2<sup>nd</sup> Int. Conf. on Emerging Trends in Energy Conservation, February (2013), Tehran, Iran.
- [7] **Sh. Seif**, M. Niknaam, S. Yousefzadegan, A.M. Masoudi Ashtiani, Y. Kazemi Ashtiani, I. Pishbin, H. Sheikhani, "Methane Emission Measurement from Natural Gas Distribution Network in Khorasan Razavi Province of Iran", 1st Int. Conf. on Environmental Crises and its Solutions, February (2013), Kish, Iran.
- [8] **Sh. Seif**, O. Tavakoli, "Hydrogen Production Using Supercritical Water Gasification", 1<sup>st</sup> National Conference on Hydrogen (Production, Storage, Consumption), (2013), Isfahan, Iran.
- [9] N. Kazemi, O. Tavakoli, **Sh. Seif**, M. Nahangi, "*Distillery Wastewater Treatment Using Hydrothermal Process*", 3<sup>rd</sup> National Conference on Fuel, Energy and Environment, (2013), Tehran, Iran.
- [10] M. Nahangi, O. Tavakoli, **Sh. Seif**, N. Kazemi, "Petrochemical Wastewater Treatment Using Supercritical Water", 1st National Conference and Exhibition on Environment, Energy and Clean Industry, (2013), Tehran, Iran.

- [11] **Sh. Seif**, O. Tavakoli, "Supercritical Water Gasification of Biomass Mapping of Knowledge on Thermodynamic Studies", 14th European Meeting on Supercritical Fluids, May (2014), Marseilles, France.
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