

CURRICULUM VITAE

Esmaeil Jabbari



Degree: M.Sc.
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EDUCATION

- Oct 2013 – Jan 2016 M.Sc. in Chemical Engineering, Department of Chemical and Petroleum, Sharif University of Technology, Tehran, Iran, (GPA: 17.83/ 20)
Thesis: “Solids mixing in gas-solid fluidized beds with an inlet jet”. Supervisor: Prof. Asghar Molaei Dehkordi
- Oct 2009 – Sep 2013 B.Sc. in Chemical Engineering, School of Chemical Engineering, University of Tehran, Tehran, Iran, (GPA: 17.93/20)
Thesis: “Simulation of FCC unit using HYSYS”. Supervisor: Prof. Rahmat Sotudeh-Gharebagh
- Oct 2008 – Sep 2009 Pre-University Education, Sheikh Kulayni State Exemplary School, Eslamshahr, Tehran, Iran, (GPA: 19.20/20).
- Oct 2006 – Sep 2008 Diploma in Mathematics and Physics, Sheikh Kulayni State Exemplary School, Eslamshahr, Tehran, Iran, (GPA: 18.85/20).

PUBLICATIONS

Book: Rahmat Sotudeh-Gharebagh, **Esmaeil Jabbari** (2021). Computer-Aided Process Simulation in Chemical Engineering, University of Tehran Press. (in Persian);

Paper: Esmaeil Jabbari, Nazi Rahimi. Investigating the Impact of Burner Arrangements on an Industrial Ethane Steam Cracking Furnace by Coupled CFD Simulation (Under Preparation).

TEACHING EXPERIENCES

- Sep 2018 – Feb 2019 Teaching Assistant: “Advanced Computer Aided Process Design and Simulation,” Prof. Rahmat Sotudeh-Gharebagh, School of Chemical Engineering, University of Tehran, Tehran, Iran.

WORK EXPERIENCES

- Jan 2020 - Present Membership at the Iranian Society of Engineering Education (ISEE IRAN);
- Sep 2012 - Present Membership at the National Elites Foundation;

Jun 2025 - Present	Senior Sale Engineer, Nitel Pars Co., Supplying Catalyst for Hydrocracking (ISOMAX), Kerosene Hydrodesulfurization (KHDS), Sulfur Recovery (SRU), Naphtha Hydrotreating (NHT), Pyrolysis Gasoline Hydrogenation (PGH), Pre-Reforming and, Ethylene-Oxide
Jan 2024 - Jun 2025	Process engineer, Project Engineering Department, Tehran Oil Refinery Company (TORC), RHU-RFCC, GHDS, CGHT (Prime G+), LPG MEROX, New CDU, Hydrogen Production Unit (HPU) - Bottom of Barrel Upgrading Project;
Apr 2022 - Jan 2024	R&D Expert, Tehran Oil Refinery Company (TORC), Research and Development Office;
Feb 2019 - Apr 2022	Process engineer, Tehran Oil Refinery Company (TORC), Light Naphtha Hydrotreating (LNHDT), Isomerization and, Hydrogen production Units;
July 2014 - Feb 2019	Process engineer, Process Design and Simulation Center, University of Tehran, Tehran, Iran;
May 2017 - July 2018	Project implementer in “Petrochemical Research and Technology Company” of National Petrochemical Company (NPC-RT) in project “Simulation of thermal cracking furnace of olefin production plant and assessment of heat transfer phenomena behavior”, Tehran, Iran;
July 2014 – Present	Chemical engineering simulators instructor, Ilam Gas Refinery, Zagros Petrochemical Company, Urmia Petrochemical Company and Bandar Imam Petrochemical Company;
July 2013 – Sep 2013	Process engineer (Internship), Pars Petrochemical Company, Asaluyeh, Bushehr, Iran.

INDUSTRIAL PROJECTS

Aug 2015 – Dec 2016	Early detection of agglomeration in polyethylene fluidized bed reactor, Amir Kabir Petrochemical Company, Bandar Imam, Khuzestan, Iran;
Feb 2017 – May 2018	Feasibility study of sulfur reducing process of diesel and fuel oil in steam power plants and comparison with the FGD process, MAPNA Group Company, Tehran, Iran;
May 2017 – July 2018	Simulation of the thermal cracking furnace of olefin production plant and assessment of heat transfer phenomena, “Petrochemical Research and Technology Company” of National Petrochemical Company (NPC-RT), Tehran, Iran;
Nov 2021 – May 2022	Feasibility Study of Mini Refining Plant with 5000 BPD, Javdan Energy Mehr Company (JEMC).

HONORS and AWARDS

Sep 2013	Admission to the M.Sc. program in chemical engineering at Sharif University of Technology, Tehran, Iran. (September 2013);
Sep 2013	<u>Ranked first</u> among more than 100 undergraduate students of school of chemical engineering, in B.Sc. University of Tehran, Tehran, Iran;
Sep 2013	<u>Silver medalist</u> , 18th National Scientific Olympiad, Tehran, Iran;

Sep 2012

Bronze medalist, 17th National Scientific Olympiad, Tehran, Iran;

Sep 2009

Ranked 873th among more than 350000 participants in the nationwide university entrance exam (Konkur) for Undergraduate Program.

INTERESTS

1. Chemical process modeling and simulation (Gas, Oil, Petrochemical and Pharmaceutical);
2. Design, modeling and simulation of chemical engineering process and equipment;
3. Feasibility study of chemical processes (COMFAR III);
4. Pinch analysis and modeling of energy in systems;
5. Modeling and simulation of refining furnace;

SKILLS

Process simulators: Aspen HYSYS, Aspen Plus, Heat Exchanger Design and Rating (EDR), Aspen Process Economic Analyzer (APEA), Petro-SIM, UniSim;

CFD: ANSYS Fluent, COMSOL Multiphysics, MFIX, OpenFOAM, Gambit;

Programming Languages: MATLAB, C++, FORTRAN, Python;

General Software: Microsoft Office, EndNote, OriginLab, MathType.

WORKSHOP (INSTRUCTOR)

Introductory Training in Refinery Processes;

Aspen HYSYS (Steady State and Dynamic);

KBC-PetroSIM;

Process Simulation using Aspen Plus (Elementary and Advanced);

Heat Exchanger Design and Simulation (EDR);

Computational Fluid Dynamic (CFD).

LANGUAGE SKILLS

Persian	[Native]	Azerbaijani	[Very Good]
English	[Intermediate]	Arabic	[Fair]

REFERENCES

Eng. Seyed Mostafa Tehrani
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