

# Mona Khamisi Zarini

Chemical engineer (process design)

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📍 Tehran, Iran

## EXPERIENCE

### Process Engineer

KASRAVAND Engineering and Construction

02/2024 - Present

Tehran

#### Tasks

- Process simulation ( Aspen Hysys, Aspen Plus)
- PFD, P&ID (AutoCad)
- Equipment List , Process Description ,Cause & Effect
- Pump NPSH Calculation, Line sizing and pipe line Hydraulic Calculation
- Steam Silencer design
- Thermal Design (HTRI)
- PSV Sizing (API 520, 521, Hysys Safety analysis)
- Acquaintance with API, TEMA, IPS, NIOEC

### Internship

Central chemical laboratory at NISOC

2019

## PROJECTS

Bio-oil and Biochar Production using Co-pyrolysis of Hyperaccumulators and Industrial Solid Waste (2021 - 2023)

- Pyrolysis experimental test
- Dr Omid Tavakoli

B.Sc. Thesis: modification methods of faujasite type zeolites for separation of p-xylene from xylene mixture (2020)

- Dr Ahmad shariati

## EDUCATION

### Master of Science Degree

University of Tehran

2020 - 2023

Tehran

#### Average

- 17.74

### Bachelor Degree

Petroleum University of Technology

2016 - 2020

Ahvaz

#### Average

- 16.75

## SKILLS

Aspen plus



Aspen Hysys



AutoCAD



Microsoft Office



Aspen Exchanger Design and Rating



HTRI



PFD & P&ID



Design Expert



Minitab



MatLab



## CERTIFICATES & ACHIEVEMENTS

4th rank in chemical engineering at PUT

Simulation of Chemical Processes using Aspen Hysys workshop at Negareh institute (2018)

32hr

Master of Chemical Engineering Exam rank : 8 (2020)

Master of of biotechnology Engineering Exam rank : 66

Master of Pharmaceutical Engineering Exam rank : 41

Iran Language Institute (2012 - 2016)

English

## PUBLICATIONS

Evolution of Cu Dopants on ZIF-8 for Efficient Photocatalytic Degradation of Tetracycline (2023)

The 12th International Chemical Engineering Congress & Exhibition (IChEC 2023)

## LANGUAGES

English

Full Professional Proficiency

Arabic

Elementary Proficiency

Persian

Full Professional Proficiency