

## Saida Kaykhaii

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Production supervisor and HSE assistant with master's degree in chemical engineering and over 5 years' experience in related industries. As an HSE assistant, my responsibility is to make the company environmentally friendly through the research projects which are initiated to treat wastewaters and reduce energy consumption. Recently, I am searching for a job for Chemical Engineer.

### WORK EXPERIENCE

Supervisor of production and Process engineer in "Ariashimi Co." Taking part in

HSE managing system, 2014- up to now.

- overseeing and organizing the production lanes
- Doing research in order to reduce air pollutant and purify waste waters by various treatment methods and developing different processes
- quality improvement of the products and synthesis of different material in laboratory scale
- scheduling and managing the production team
- Increasing the production capacity by 40% which is awarded by my accurate strategies
- Regulation and enforcement of workplace health, safety and welfare
- managing, controlling and handling all aspects of health, safety and environment of workplace

worked as R&D engineer in "Taftan Pipe Company", 2013-2014

- Taking part in business section of the company
- Working as translator for visitors who came from abroad companies and visited our Company

Intern at "Paksan Company", summer 2012

### TEACHING EXPERIENCE

- English teacher in Marefat Language Institute from 2017 up to now
- Teacher Assistant in numerical methods at Semnan University, 2010-2011

### EDUCATION

● M.Sc. in Chemical Process Engineering, Transport phenomena, Sistan and Baluchestan University, Zahedan, Iran, 2013-2016

Thesis: "Effect of laminar pulsatile fluid flow on the separation of volatile organic compounds (BTEX) from aqueous solution by a hollow fiber membrane-based process" Supervised by: Dr. Davod Mohebbi-Kalhari, Prof. Massoud Kaykhaii

Cumulative GPA: 17.26/20

- B.Sc. in Chemical Engineering, oil industries, Semnan University, Semnan, Iran, 2009-2013  
Thesis: "Sour gas separation of natural gas using a membrane process and amines"

Supervised by: Dr. M. Mehdi pour

Total GPA: 14.69/20

## SKILLS

### *SOFTWARE SKILLS*

- Expert in: Design Expert, Polymath, SPSS, Comsol Multiphysics, Ansys Fluent, Ansys Gambit
- Familiar with: Matlab and Simulink, Aspen, Hysys, Office package (Word, Excel, ...)

### *LABORATORY EXPERIENCE*

- Familiar with: GC-FID, Mass Spectrometry, HPLC, bench-scale UV device

## RESEARCHES IN LABORATORY SCALE

- Using intravascular system as an Ultra filtration membrane process for purification of medical waste water.
- Using Nano filtration process for separation of volatile compounds from water
- Doing research on membrane bioreactors

## ACCOMPLISHED PROJECTS

### *M.Sc.*

- Investigation of drag force of the air flow on a sphere in three-dimensional coordinates using Gambit and Fluent softwares
- Modeling of heat transfer in laminar flow of Newtonian fluid using Comsol Multiphysics
- Extraction of essential oils from rosemary
- Re-simulation of natural convection in an enclosure containing a sinusoidally heated cylindrical source using Comsol Multiphysics

### *B.Sc.*

- Modeling of ethylene oxide and ethylene glycol units in Maroon petrochemical company using Aspen Tech Software
- Separation of Pb + and Cu + and Zn + from textile factory waste water using Nano filtration process
- Fundamentals of two-phase fluids and governing equations
- Pipeline Pigging and its applications

## LANGUAGE SKILLS

- English: Fluent  
Toefl score: 93 (Reading: 23, Listening: 26, Speaking: 22, Writing: 22)
- Farsi (Persian): Native

SELECTED GRADUATE COURSES: Turbulent flow and boundary layers (Top Score), Advanced fluid dynamics, Transport Phenomena (Top Score), Advanced Transport Phenomena, Advanced Mathematics, Advanced Heat Transfer, Advanced Thermodynamics

SELECTED UNDERGRADUATE COURSES: Fluid Mechanics1, Fluid Mechanics 2(Top Score), Mathematics for engineers, Mass transfer operation 1 & 2, Heat transfer operation 1& 2, Introduction to reservoir engineering

#### PUBLICATIONS

- Effect of laminar pulsatile fluid flow on the separation of volatile organic compounds (BTEX) from aqueous solution by a hollow fiber membrane-based process, Iranian Journal of Chemistry and Chemical Science
- Material safety data sheet (MSDS) book for raw materials and products of ARIASHIMI Co. 2018

#### RESEARCH INTERESTS

- Pulsatile fluid flow
- UF and NF Membrane process
- Tumor pathology and transport phenomena
- Renewable energies
- Membrane bio reactors

#### REFERENCES

- Dr. Davod M. Kalhori , Department of chemical engineering, University of Sistan and Baluchestan, Email: davoodmk@eng.usb.ac.ir
- Prof. Massoud Kaykhaii , Department of Chemistry, University of Sistan and Baluchestan, Email: Kaykhaii@hamoon.usb.ac.ir
- Dr. Farshad Varaminian , Department of chemical engineering, Semnan University, Email: fvaraminian@semnan.ac.ir