

In the Name of God

Curriculum and Acquaintance Vita (C.V.)

Mohammad Hossein Karimi

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1. Personal Data:

First name: Mohammad Hussein
Surname: Karimi
Date of birth: July 11, 1982
Nationality: Iranian
Country of birth: Iran
Native language: Persian
Foreign language: English
Matrimony status: Married

2. Educations:

20.09.2000-21.09.2004 Urmia University, Faculty of Engineering, Mechanical Engineering, Fluid Mechanics

Degree: Bachelor of Science

Thesis title: Software evaluation via A Study of Deviations in Results of Manual, and Computer-Based Step-Wise Method Calculations for Shell and Tube Heat Exchangers

21.09.2004 -28.09.2006 Tabriz University (Tabriz, Iran), Faculty of Mechanical Engineering, Applied Mechanics

Degree: Master of Science

Thesis title: Dynamic behavior of a fluid conveying pipe subjected to a moving sprung mass
An FEM-state space approach

22.12.2017 -16.07.2023 Iran university of science and technology (Tehran, Iran), Faculty of Mechanical Engineering, Applied Mechanics

Degree: PhD

Thesis title: Modified micromechanical models to predict mechanical properties of elastomeric nanocomposites.

3. Trainings and Certificates

April, 2004	Azarab Industries Company (As trainee)
July 2006	Theory of Piping Design
November 2007	Welding Inspection (AWS QC1)
January 2008	Piping Stress Analysis (CAESAR II Software)
May 2008	PFD-P&ID Development

4. Experience (full time)

- RIPI project manager basic design of heavy oil upgrading units for IKORC (non-process sections) (2021-2023)
- RIPI project manager MEU unit SPGC phases I (2021-2023)
- RIPI project manager basic design of heavy oil upgrading units for BORC (non-process sections) (2019-2021)
- RIPI project engineering manager DMC unit SPGC phases 2 & 3 (2016-2018)
- RIPI piping lead engineer (2010-2015)
- Piping lead engineer in ITOK IRAN (2009)

5. Experience (part time)

- LOSHAN, steam network stress analysis-2010
- Khangiran, design of Degassing unit for SRU-2015
- Kerman, piping design and 3D development of Arsenic removal unit-2016

6. Executive Position

- Vice director of Engineering Division, Downstream SBU, RIPI (2021-now)
- Director of Piping, civil and structure group, Engineering Division, Downstream SBU, RIPI (2019-now)

7. Teaching Experience:

Trainer of **PDMS** software (plant design management system), **CAESAR II** software (Piping Stress Analysis software), **ANSYS** (FEM-Stress Analysis), **Theory of Piping Design**.

I held a lot of above Courses e.g., in Iran University of Science and Technology, Research Institute of Petroleum Industry (RIPI), Petro Pajuhesh Sharif Training Center, LAVAN Oil Refinery Co., Iranian Oil Pipelines and Telecommunication Company, South Pars Gas Co., Ramiad Co.

8. Awards, Honorary Degrees

- Distinguished B.S. Student (2004)
- Distinguished M.S. student (2006)

9. Publication:

Journal of Reinforced Plastics and Composites

- MH Karimi Dona, F Taheri-behrooz, B Mohammadi, Effect of intercalated and exfoliated graphite particles on the mechanical properties of polymer composite: A micromechanics-computational approach. 2023

Polymer Composites

- Karimi Dona, M.H., F. Tahri-behrooz, and B. Mohammadi, A modified classic-micromechanics approach to predict effective elastic properties of nanoparticles reinforced polymers. Polymer Composites, 2022. 43(4): p. 2129-2138.

International Journal of Pressure Vessels and Piping

- Dynamic behavior of a fluid conveying pipe subjected to a moving sprung mass An FEM-state space approach, Morteza H. Sadeghi, Mohammad H. Karimi-Dona* 2011, Mechanical Engineering Department, University of Tabriz, Tabriz 516 66, Iran

International Journal of Applied Science and Engineering

- Software evaluation via A Study of Deviations in Results of Manual and Computer-Based Step-Wise Method Calculations for Shell and Tube Heat Exchangers, M. H. Karimi Dona ^{a*}, M. R. Jalalirad ^b, 2014 ^a Research Institute of Petroleum Industry, West Blvd., Near Azadi Sports Complex, Tehran 1485733111, ^b *Institute for Thermodynamics and Thermal Engineering (ITW) University of Stuttgart Pfaffenwaldring 670550 Stuttgart Germany*