

# CURRICULUM VITAE

Mohammad Tohidi Vahdat

Email: [m.tohidi.v@gmail.com](mailto:m.tohidi.v@gmail.com)

Cell: +989122131914



## EDUCATIONAL BACKGROUND

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- 2013-2016      **UNIVERSITY OF TEHRAN**  
*M.Sc. in Chemical Engineering*  
*Process Engineering*
- GPA: 17.78 out of 20 (3.91 out of 4)
- 2013-2014      **UNIVERSITY OF TEHRAN**  
*Short term Educational Course Certification of MBA*
- 2009-2013      **UNIVERSITY OF TEHRAN**  
*B.Sc. in Chemical Engineering*
- GPA: 17.47 out of 20 (3.79 out of 4)
- 2005-2009      **ALAVI HIGH SCHOOL, TEHRAN, IRAN**  
*Physics and Mathematics Diploma*

## RESEARCH EXPERIENCE

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- **Graduate Research Assistant (2013–2016):** “Investigation of Electrical Field Effects on Fluidized Bed Hydrodynamics”, University of Tehran. (Research Team: Prof. Navid Mostoufi, Associate Prof. Reza Zarghami, Mohammad T. Vahdat)
- **Undergraduate Research Assistant (2012-2013):** “Dynamic Simulation of a Gas Sweetening Plant and Extracting the Real Residence Time of its Equipment”, University of Tehran. (Research Team: Prof. Navid Mostoufi, Associate Prof. Reza Zarghami, Mohammad T. Vahdat)

## TEACHING EXPERIENCE

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- **Graduate Teaching Assistant:**
  1. **Kinetics and Reactor Design** (Capstone Course) (44 students). Main Topics Covered: Mole Balances, Conversion and Reactor Sizing, Rate Law and Stoichiometry, Isothermal Reactor Design, Multiple Reactions, Steady-State Non Isothermal Reactor Design. Work Included: helping with course preparation, lecturing, evaluation of student projects and grading exams.
  2. **Chemical Process Simulation using Aspen HYSYS** (40 students). Main Topics Covered: Modeling Heat Exchanger, Modeling Reactors, Modeling other Unit Operations, Logical Operations, Optimization. Work Included: helping with course preparation, conducting lab classes, lecturing, designing and grading homework assignments.

## ACADEMIC HONORS

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- Ranked among **top 0.5%** of the applicants in Iran's nationwide, university entrance exam for Engineering, Math and Science, 2009
- **Ranked 1<sup>th</sup>** in GPA among more than 100 students in B.Sc. degree three semesters in a row, Chemical Engineering Department, University of Tehran, class of 2013
- **Ranked 4<sup>th</sup>** in GPA among more than 100 students in B.Sc. degree, Chemical Engineering Department, University of Tehran, class of 2013
- **Honorary admission for graduate study**, Tehran chemical Engineering Department at Tehran University (top five percentile), 2013
- Awarded **FOE (Faculty of Engineering) certification** from University College of Engineering, due to being amongst the exceptional talents (ranked 3<sup>rd</sup> in GPA among class of 2013 Chemical Engineering Students), Fall and Spring of 2012
- Awarded **FOE (Faculty of Engineering) certification** from University College of Engineering, due to being amongst the exceptional talents (ranked 2<sup>nd</sup> in GPA among class of 2013 Chemical Engineering Students), Fall and Spring of 2011

## LANGUAGE SKILLS

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- Farsi: Native
- English: Fluent

**TOEFL IBT: 107** (reading: 28, listening: 28, writing: 28, speaking: 23)

**GRE Revised General Test: 322** (verbal: 152, quantitative: 170, writing: 3)

## EXTRA CURRICULAR ACTIVITIES

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- Member of leadership team of "Scientific Association of Chemical Engineering", College of Engineering, University of Tehran (Academic Year of 2009-2010)
- Member of leadership team responsible for withholding Computational Fluid Dynamics conference (150 participants in 3 days)

## ACADEMIC TRAINING

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- Participated in the 1st Computational Fluid Dynamics workshop, University of Tehran, Tehran, Iran (Feb. 2012)

## COMPUTER AND PROGRAMMING SKILLS

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- **Programming Language:** C++, MATLAB
- **Chemical Engineering Software:** Aspen Plus, Aspen HYSYS
- **Other Software:** Microsoft Office, Photoshop, MINITAB

## REFERENCE

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*References available upon request*