

# Curriculum Vitae

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## Education

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| 2017–Now  | <b>PhD, Chemical Engineering, Chalmers University of Technology, Gothenburg, Sweden.</b>   |
| 2015–2017 | <b>Master of Science, Innovative and Sustainable Chemical Engineering, Chalmers University of Technology, Gothenburg, Sweden.</b><br>Chemical poisoning of lean NO <sub>x</sub> traps used for cleaning emissions from vehicles.   |
| 2013–2015 | <b>Master of Science, Chemical Engineering-Biotechnology, Azad University of Science and Research Branch, Tehran, Iran.</b><br>Thesis: Synthesis and Evaluation of Nanofluid additive with Graphene base to improve combustion properties of diesel and biodiesel fuel blends. |
| 2007–2012 | <b>Bachelor of Science, Chemical Engineering-Mineral chemical industries, Azad University of Tehran North, Tehran, Iran.</b><br>Thesis: liquid-liquid extraction in Rotating Disc Columns (RDC).   |

## Research Experience

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| <b>2016–2017</b> | <b>M.Sc. Chalmers University of Technology, Sweden</b>   |
| 2017–06          | Characterization of Poisoned Catalyst in NO <sub>x</sub> Reduction Concept                                       |
| 2017–03          | Catalyst Synthesis in NO <sub>x</sub> Reduction Concept  |
| 2017–01          | NO <sub>x</sub> Reduction by Three Way Catalyst  |
| 2016–011         | Analysis of project management methodologies for a hardware and software product development at CPAC Systems AB. |
| 2016–11          | Energy analysis and retrofit of a pulp mill drying plan.   |
| 2016–10          | Process integration and economic performance of industrial heat pumps.   |
| 2016–08          | Pinch analysis, energy and cost targeting, MER network design.   |
| 2016–08          | Multivariate data analysis with SIMCA.   |
| 2016–04          | Optimization and Simulation of Ethylhexanal Production.  |
| 2015–11          | Cellulose nanocellulose in Medical Applications.   |
| 2015–11          | Nuclear waste management.  |
| 2015–08          | Bioethanol and biomethane: a comparative sustainability analysis.  |
| <b>2013–2015</b> | <b>M.Sc. Azad University of Science and Research Branch, Tehran</b>  |
| 2015–06          | The nature and function of cytochrome p450 enzyme systems in elimination of persistent pollutants.               |
| 2015–04          | Evaluation of controlled release oral cancer drugs based on nanotechnology.                                      |
| 2015–01          | Evaluation of controlled release for oral anticancer drugs using biodegradable polymers.                         |
| 2014–12          | Erythromycin Production via Batch Fermentation by Saccharopolyspore Erythraea Bacteria.                          |
| 2013             | Tetracycline Production via Fermentation.  |

<b>2007–2011</b>	<b>B.Sc Azad University of Tehran North, Tehran.</b>
2011–12	Industrial applications of Zeolite.
2011–04	Study of liquid-liquid extraction methods, their applications, potential challenges with regards to extraction columns and ways to overcome them.
2010–12	Industrial applications of Fuel cells. To experience my academic studies in reality, I have eagerly worked as a nutritionist in Dar Al-Tohid charity services and health institute in Tehran.
2009–12	Characteristics of hydrocarbons in Cement.
2009–04	General study of Solid- Liquid Extraction (Leaching).
2008–12	Study of biological and seaboard processes for sweetening of natural gas.
2008–12	Economical evaluation and design of a sample company.

## Other Experiences

2011	<b>Internship at Behdad Chemical Company</b> Detergents department. Performing experiments at different sections such as quality control, Performance, Sulfonation.
2008	<b>Summer job at Parto Alyaf Company</b> Research on lubricants for textile industry, sales representative at international department).

## Publications

Working on the article with the topic of Chemical Poisoning of Lean NO<sub>x</sub> Traps Used for Cleaning Emissions from Vehicles.

## Professional Skill

### Language

Persian	Native proficiency
English	Full professional proficiency
Swedish	Beginner
German	Beginner

### Passed Courses

**Related Coursework at M.Sc. in Innovative and Sustainable Chemical Engineering, Sweden:** Design and Analysis of Experiments, Global Chemical Sustainability, Industrial Energy Systems, Waste Management, Advanced Chemical Engineering and Process Analytical Technology, Biorefinery, Advanced Separation Technology, Combustion Engineering, Preliminary Plant Design, Sustainable Energy Futures, Project management, Food technology.

**Related Coursework at M.Sc. in Chemical Engineering-Biotechnology, Iran:** Advanced Mathematics, Transport Phenomena in Biological systems, Industrial Microbiology and Fermentation Processes, Bioreactor Design, Separation, Biochemistry Engineering, Recycling and Separation of Biological materials, Enzyme Technology, Project Management, Biotechnology Lab, Food Biotechnology.

### Software

Professional	Microsoft Office, Matlab, HYSIS ASPEN.
Good	Latex, Aspen Energy Analyzer, Origins, SIMCA.

### Personal Characteristics

Technical	problem solving
Social	Honest, Friendly, Supportive
Meticulous	in Research