

Amin Solouki, PhD Student

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Education

• École Polytechnique of Montréal, Montréal, QC, Ph.D. Degree, Department of Chemical Engineering	Canada	()
• Politecnico di Milano, Milan, Italy M.Sc. Degree, Department of Energy Engineering Thesis: "Modeling infrastructure and implementation of S Linde's in-house equation oriented process simulator OP	State-of-the-Art Heat Traı TISIM®"	(2017) nsfer Models into
• Sharif University of Technology, Tehran, Iran B.Sc. Degree, Department of Chemical Engineering Thesis: Development of Biomass and Waste to Energy Sy	ystems"	(2012)
Research Interests		
 Process Equipment Design, Development and Optim Thermal and Catalytic Fluidized Bed Reactors Computational Heat Transfer & Plate Fin Heat Excl Development of Renewable Energy Resources Thermo-Hydraulics of multi-phase flows Computer-aided Modeling & Scientific Calculation Cryogenics & Liquefaction 	nization hangers	
Work Experience		
 Process Equipment Design & Computational Mechanics (ENCP), Linde AG, Munich, Germany 	Thesis Student	2016-2017
• Process Equipment Design & Computational Mechanics (ENCP), Linde AG, Munich, Germany	Intern	2015-2016
• Arad Industrial Group, Tehran, Iran	Software Developer	2012-2014
 Research & Development (R&D), Exir Pharmaceutical Co., Borujerd, Iran 	Intern	2011

Research Background

Simulation module Development for Plate-Fin Heat Exchangers used in LNG, Air Separation • Units and Refrigeration Processes

- Energy analysis and economic comparison of different Low Carbon Technologies and Energy Systems
- Analysis of different types of air pollution control systems
- Heating and cooling Energy requirements evaluation for a building module
- Multi objective optimization on HT-PEM Fuel Cells
- Design of Shell & Tube Heat Exchangers
- Design of Sieve Tray Distillation Column
- Thermo-Hydraulic & simulation of PWR Nuclear Reactors
- Study of Biomass and renewable energy Systems
- Development of Commercial Nano-Catalysts
- Feasibility study for a Terephtalic Acid Plant

Teaching Experience

•	Introduction to Programming, Sharif University of	Teaching
	Technology, Tehran, Iran	Assistant

2009-2010

Conference Publications

• Woitalka, A., Thomas, I., Freko, P., Solouki, A., 'Thermo-Hydraulic Simulation of Plate Fin Heat Exchangers using OPTISIM', Proceedings of the 7th International Conference on Advanced Computational Heat Transfer (CHT-17) May, 2017