MEHRAN AHMADPOUR

Curriculum Vitae

Department of Energy Engineering Sharif University of Technology Phone Number: (+98) 9120470415 Website: mehranahmadpour.mozellosite.com <u>E-mail: Mehran.hmdpr@gmail.com</u> <u>LinkedIn: Mehran-ahmadpour</u> <u>Github: Mehran-hmdpr</u>

EDUCATION

Master of Science in Energy Systems Engineering Sharif University of Technology (SUT)		Sep 2019 Feb 2022
<u>GPA:</u>	<u>4.0/4.0</u>	
Thesis:	<i>"Improvement of Industrial Symbiosis Between Greenhouses and Industrial Waste Heat Sources by Employing Organic Rankine Cycle (ORC)"</i>	
Supervisors:	Dr. R. Roshandel; Dr. M. Behshad Shafii	
Bachelor of S Science and F	Science in Mechanical Engineering Research Branch of Islamic Azad University (SRBIAU)	Sep 2013 Sep 2018
Thesis: Supervisor:	"Optimization of Industrial Axial Compressor Blade Sections" Dr. A. Nejati	

RESEARCH INTERESTS

- Modelling and optimization of energy systems
- Building energy performance and thermal comfort
- Renewable energy systems
- Machine learning applications in energy systems

PUBLICATIONS

- Ahmadpour. M, Roshandel. & Shafii, M.B. The effect of organic Rankine cycle system design on energy-based agro-industrial symbiosis. *Energy Efficiency* 17, 39 (2024). <u>https://doi.org/10.1007/s12053-024-10221-0</u>
- Ahmadpour. M, Roshandel. & Shafii, M.B. Comparative Analysis of Two Approaches to Pumped Thermal Energy Storage: Independent Heat Pump and Organic Rankine Cycle Systems vs. Reversible ORC/HP System. Journal of Energy Conversion and Management (In Preparation).

EXPERIENCE

Research Assistant	Summer 2021		
Department of Energy Engineering, Sharif University of Technology			
Renewable Energy Systems Lab			
Supervisor: Dr. R. Roshandel			
 Installed a solar water-heating system Conducted an experimental study on solar thermal energy collectors 			
Teaching Assistant	Fall 2020 Fall 2021		
Department of Energy Engineering, Sharif University of Technology			
Course: Advanced Mathematical Programming (Graduate-level course)			
Supervisor: Dr. R. Roshandel Course Number: 46311			
 Led tutorial sessions for up to 30 graduate students Created assignments and held problem-solving sessions Graded midterms, final exams and term papers 			
Teaching Assistant	Fall 2020		
Department of Energy Engineering, Sharif University of Technology	-		
Course: Process Engineering (Graduate-level course)			
Supervisor: Dr. A. Avami Course Number: 46310			
 Provided instructions in use of process simulators Created assignments and graded term papers Led tutorial sessions for up to 20 graduate students 			
COMPUTER SKILLS			
Programing: Python, MATLAB			

Engineering Software: COMSOL, CATIA, EES, Aspen Plus General: Microsoft Office, Adobe Photoshop, Mendeley

LANGUAGES

• English: TOEFL iBT[®] Test: (103 out of 120) • Persian: Native