

Resume
Hooman Azad

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Academic Education

- Ph.D. student in Energy Resilience and the Built Environment, Loughborough University, Loughborough, UK.
- Master of Science in mechanical engineering, Eastern Mediterranean University, Famagusta, Northern Cyprus, CGPA 4 out of 4, January 2019.
- Bachelor of Science in solid-state physics, Islamic Azad University Of Central Tehran Branch, Tehran, Iran, CGPA 3.1 out of 4, June 2002.

Summary of Technical Skills

- Building energy modeling.
- Buildings physics.
- HVAC systems and equipment.
- Solar energy.
- CFD.

Computer Skills

- MATLAB, EnergyPlus, Design Builder, TRNSYS, EES, Fluent.

Publications

- Gilani HA, Hoseinzadeh S. Techno-economic study of compound parabolic collector in solar water heating system in the northern hemisphere. Applied Thermal Engineering. 2021 May 25;190:116756.
<https://doi.org/10.1016/j.applthermaleng.2021.116756>
- Gilani HA, Hoseinzadeh S, Karimi H, Karimi A, Hassanzadeh A, Garcia DA. Performance analysis of integrated solar heat pump VRF system for the low energy building in Mediterranean island. Renewable Energy. 2021 Aug 1;174:1006-19.
<https://doi.org/10.1016/j.renene.2021.04.081>
- Gilani HA, Hoseinzadeh S, Esmaeilion F, Memon S, Garcia DA, Assad ME. A solar thermal driven ORC-VFR system employed in subtropical Mediterranean climatic building. Energy. 2022 Jul 1;250:123819.
<https://doi.org/10.1016/j.energy.2022.123819>

Honors & Awards

- The winner of the 2021 international Ph.D. full-scholarship of ERBE CDT at Loughborough University, Loughborough, UK, August 2021.
- The winner of second place in the 2022 ASHRAE Doctoral Researcher Student Competition, Loughborough, UK, May 2022.

Languages

- TOEFL iBT score of 100.

Work History

- **Eastern Mediterranean University**, February 2017 – June 2019
Full time teaching assistant for heat transfer, solar energy engineering and thermodynamics courses. Also lab instructor in the thermal science lab and performed experiments such as cooling tower, steady state heat conduction in metals and combined radiation and convection heat transfer.
- **Samsung Electronics – Iran branch**, December 2013 – March 2015
Samsung HVAC product line up: VRF (Variable Refrigerant Flow) systems, split units, duct split units, rooftop packaged units.
Product manager. Mainly focused on building and developing Samsung's B2B network in Iran's HVAC market to increase Samsung market share in Iran. Provided technical and sales support for the distributor.
- **Nichilan industrial & technology innovations – official distributor of Japan's Daikin in Iran**, October 2011 – September 2013
Daikin HVAC product line up supplied by the distributor: VRV (Variable Refrigerant Volume) systems, split units, duct split units, rooftop packaged units.
Technical sales support engineer. Responsible for load calculations and optimal unit selection for all Daikin products for a wide range of customers, projects and applications and prepared the optimized solution. Responsible for preparing installation documents.
- **Kar-O-Andishe – official distributor of Japan's EBARA in Iran and official distributor of Japan's Daikin in Iran**, March 2009 – September 2011
EBARA HVAC product line up supplied by the distributor: absorption chillers, cooling towers, fan coil units.
Daikin HVAC product line up supplied by the distributor: VRV systems, duct split units, rooftop packaged units.
Technical sales engineer. My responsibilities included presenting products, handling potential customers' needs and selling products. Actively involved in the company's research activities including preparing technical papers for journals. Actively contributed to the development of RISS (remote intelligent service system) for EBARA's absorption chillers installed across Iran, to monitor the performance and faults of the operating absorption chillers. Training of newly recruited sales engineers.
- **Military service**, August 2007 – February 2009
Served my military service at the Iran air force research and development institute.

On the Job Training

- Samsung electronics – Iran branch – Samsung essentials for B2B course, Tehran, Iran, November 2014.
- Daikin training center – understanding of Daikin VRV system course (VRV concept, load calculations, unit selection procedure, refrigerant pipe and joint selection, computer selection tools ...), Singapore, November 2010.

Membership

- The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), November 2021 to present.
- Chartered Institution of Building Services Engineers (CIBSE), May 2022 to present.