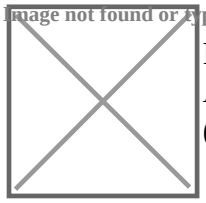
Hossein Gharibvand



PhD Candidate
Amirkabir University of Technology(AUT)
(Tehran Polytechnic)

Biography: Born in 1997, I earned my B.Sc. degree in Electrical Engineering from Shahid Beheshti University in 2019, followed by an M.Sc. in Power Engineering from Amirkabir University of Technology (Tehran Polytechnic) in 2021. My main research interests focus on Energy Systems, Integrated Energy Networks, Smart Grids, Distributed Generation, Renewable Energy Sources, Green Hydrogen, and Energy Flexibility. I completed my PhD in Power Systems at Amirkabir University of Technology in June 2025, graduating with honors.

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Educational Records

PhD

Amirkabir University of Technology (AUT), Tehran Polytechnic

Thesis Title: Modelling and Improvement of Energy Flexibility in nZEDs Based on Green Hydrogen

Gharibvand, Hossein (PI), B. Gharehpetian, Gevork (Supervisor), Anvari-Moghaddam, Amjad (Supervisor)

Description

Considering the pollution of fossil fuels and their environmental effects, especially in the field of global warming; to provide energy, sustainable, non-polluting or very low pollution sources are needed. In this context, renewable resources are proposed as a main candidate. However, the use of renewable generations is faced with issues such as the unpredictable nature (prediction error) and the lack of full control

Finished
08/06/2025 ? 23/09/2021

MSc
Amirkabir University of Technology (AUT), Tehran Polytechnic
Thesis Title: Modelling and optimization reverse osmosis desalination powered by floating photovoltaic power plant for coastal areas and islands
Gharibvand, Hossein (PI), Riahy Dehkordi, Gholam Hossein (Supervisor)

Finished
20/09/2021 ? 23/09/2019

BSc
Shahid Beheshti University (SBU)
Thesis Title: Designing a renewable energy-based electrical system using HOMER software
Gharibvand, Hossein (PI), Sedighizadeh, Mostafa (Supervisor)

Finished
20/09/2019 ? 23/09/2015

Teaching

Publication

Journal Papers

NO	TITLE	YEAR

Conference Papers

NO	TITLE	YEAR

Books

NO	TITLE	YEAR

Patents

NO	TITLE	YEAR

Industrial Projects

NO	TITLE	YEAR

Management/Administration Jobs

Scientific Societies

Awards