



Mahyar Mirzaei Omrani

Mechanical Engineer



Date of Birth:
12.28.1991



National ID. Number:
3610471115



Military Service Status:
Done



Marital status:
Single



Address:
Zahedan, Sistan and Baluchestan Province, Iran.

Education



Sep 2015- Jan 2018

Master of Science

Mechanical Engineering
Shahid Beheshti University (Tehran/Iran)
Discipline: Energy Conversion-Electrical Energy
Management
GPA: 18.74

Thesis:

Techno-economic analysis of reusing electric vehicle lithium-ion battery packs in energy storage stations in Iran and prediction of future changes

Sep 2010- Jan 2015

Bachelor of Science

Mechanical Engineering

Thesis :

Calculation and design of sewerage system of Sistan and Baluchestan university campus

Working Experience



2 years (Oct 2018-Oct 2020)

Management and Planning Organization of Sistan and Baluchestan Province, (Zahedan/Iran)

Cooperation with the technical section and planning department

1 Week (May 2019)

5 kW photovoltaic solar power plant, (Zahak/Iran)

*Cooperation with Pars Energy Tida Company
Instalment and Execution of power plant*

6 Months (Sep 2017-Mar 2018)

10 MW Photovoltaic solar power plant, (Zahedan/Iran)

*Supervision on the structures and Panels installation
Prepare a daily financial report*

14 Months (Nov 2016-Jan 2018)

Niroo Research Institute (NRI), (Tehran/Iran)

Behnam Research Project of Shahid Beheshti University

13 Months (Jun 2014-Aug 2015)

Nylon and plastic production line, (Zahedan/Iran)

Technical Supervisor

Software



RETScreen	●●●●●●●●●●
Comfar	●●●●●●●●●●
PVSyst	●●●●●●●●●●
Catia	●●●●●●●●●●
Matlab	●●●●●●●●●●
MSP Project	●●●●●●●●●●
Microsoft Office	●●●●●●●●●●

Personality



Team work	●●●●●●●●●●
Flexibility	●●●●●●●●●●
Creativity	●●●●●●●●●●
Pluralism	●●●●●●●●●●
Learning enthusiasm	●●●●●●●●●●

Languages



Reading	●●●●●●●●●●	English
Writing	●●●●●●●●●●	
Speaking	●●●●●●●●●●	
Listening	●●●●●●●●●●	

Research fields



Renewable energy
Energy Storage systems
Battery, HEV, EV vehicles
Energy Audit and Optimization
Future studies & comparative study in the field of energy
Waste Management
Article Writing



- Best paper award for: Energy audits and recovery in the production of industrial bread and pastry, March 2017
- First ranked, the top master student with highest GPA of 18.74
- Member of Iranian energy association (2016-Continued)
- Member of Iranian society of mechanical engineering (ISME)
- Member of Iranian wind energy association (2017-Continued)
- Member of the design and construction team in net zero energy building modelling project at the mechanical and energy engineering faculty of Shahid Beheshti University
- Member of the editorial board of Tavan journal (Journal of the scientific association of the mechanical and energy engineering faculty of Shahid Beheshti University)

Publications



Papers

Mahyar Mirzaei Omrani, Hamid Jannesari, “*Economic and environmental assessment of reusing electric vehicle lithium-ion batteries for load leveling in the residential, industrial and photovoltaic power plants sectors*”, Renewable and Sustainable Energy Reviews, Vol. 116, 2019.

Mahyar Mirzaei Omrani, Hamid Jannesari, “Economic analysis of reusing lithium-ion battery for peak shaving in the domestic sector”, 3rd International conference on researches in science and engineering, Bangkok, Thailand, 2017.

Ramin Haghighi Khoshkhoo, **Mahyar Mirzaei Omrani**, “*Energy audits and recovery in the production of industrial bread and pastry*”, 3rd International conference on advances in mechanical engineering (ICAME), Istanbul, Turkey, 2017.

Mahyar Mirzaei Omrani, Majid Zandi, Mazyar Mirzaei Omrani, Serge Pierfederici, “*Investigation of an appropriate location for construction the large-scale photovoltaic power plant in southeastern Iran*”, 2019 Iranian conference on renewable energy & distributed generation (ICREDG), Tehran, Iran, publisher: IEEE, 2019.

Mohsen Nikbakht, Behnaz Moradi, **Mahyar Mirzaei Omrani**, “*Performance comparison of the 1.2-megawatt photovoltaic system with a hybrid concentrated solar power/fossil fuel power plant in Iran*”, 2019 Iranian conference on renewable energy & distributed generation (ICREDG), Tehran, Iran, publisher: IEEE, 2019.

Mahyar Mirzaei Omrani, Hamid Rafie, “*Floating photovoltaic power plants in Iran: economic perspectives for investors and governments*” (Persian language), 2019 Iranian Conference on Renewable Energy & Distributed Generation (ICREDG), Tehran, Iran, Publisher: IEEE, pp: 1-6, 2019.

Mahyar Mirzaei Omrani, Rohollah Shahabi Nezhad, Majid Zandi, Roghayeh Gavagsaz-ghoachani, “*Feasibility study of photovoltaic solar power plants construction in the Southeastern Iran: Technical and economic parameters*” (Persian language), 2nd International conference on researches in science & engineering, Istanbul, Turkey, 2017.

Ramin Haghighi Khoshkhoo, **Mahyar Mirzaei Omrani**, Shahram Goodarzi, “*Energy audits and recovery in the production of industrial bread and pastry*” (Persian language), 3rd International conference on technology and energy management, Tehran, Iran, 2017.

Mahyar Mirzaei Omrani, Mohammadreza Mohamadyari, “*Economic analysis of a waste incineration plant in Southeastern Iran: overview of the waste status*” (Persian language), 3rd International conference on researches in science & engineering, Bangkok, Thailand, 2017.

Mahyar Mirzaei Omrani, Hamid Jannesari, “*Economic analysis of reusing lithium-ion battery for peak shaving in the industrial sector*” (Persian language), 10th International conference on internal combustion engines & oil, Tehran, Iran, 2018.

Fatemeh Barahoei Noori, **Mahyar Mirzaei Omrani**, Bahram Malekzadeh, “*Study of poverty index in Sistan and Baluchestan province*” (Persian language), Quarterly journal of rahyft tose’e, Management and planning organization of Sistan and Baluchestan province, Issue: 2, Zahedan, Iran, 2020.

Narges Gholamhosseini, Elahe Rajabi, **Mahyar Mirzaei Omrani**, “*Energy policy: A Step to Achieve Sustainable Development*” (Persian language), Tavan journal (Journal of the scientific association of the mechanical and energy engineering faculty of Shahid Beheshti University, 2018.

Mahyar Mirzaei Omrani, Masoud Mohammadzadeh, “*An overview of the status of renewable energy in Sistan and Baluchestan: Potential and Opportunities*” (Persian language), Quarterly journal of rahyft tose’e, Management and planning organization of Sistan and Baluchestan province, Issue: 1, Zahedan, Iran, 2020.

Books

(2019), Peak shaving in the electric power industry by reusing electric vehicle battery (Persian language), Publisher: Kian adab, Tehran, Iran, ISBN: 978-600-96764-7-7

(2020), Economic, social & cultural report of Sistan and Baluchestan province in 2018, Management and planning organization of Sistan and Baluchestan province, ISBN: 622-96748-6-4

Teaching Assistant

- TA for undergraduate students in water-distribution and wastewater collecting systems course at Shahid Beheshti University
- TA for undergraduate students in heat transfer course at Shahid Beheshti University

Skills



Welding and Turning

Push fit, multilayer (PEX) pipes & floor heating.

Pneumatic, hydraulic and PLC systems, FESTO company, 2011.

Contact



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ResearchGate:

https://www.researchgate.net/profile/Mahyar_Mirzaei_Omrani

Scholar:

<http://scholar.google.com/citations?user=2cN5Zv0AAAAJ&hl=en>

LinkedIn:

<https://ir.linkedin.com/in/mahyar-mirzaei-a37994189>