



ALI MOJTAMED

PH.D. STUDENT AT UNIVERSITY OF SAPIENZA IN THE FIELD OF ENERGY AND AMBIENT

PERSONAL DATA

Date of birth: 22 Jan 1994
Marital status: Single
Nationality: Iran
Live in: Rome (currently)

SKILLS

SOFTWARE SKILLS:

MATLAB
Simulink
AutoCAD
REVIT
Microsoft office suite
Pvsyst
HOMER energy pro
DIALUX
Career HAP
Python: basic programming, data analysis, basic machine learning

EDUCATION

PH.D. IN ENERGY AND AMBIENT • NOV- 2021- CURRENT • UNIVERSITY OF SAPIENZA (ROME) - ITALY

Focusing on energy communities, energy storage systems, building energy and hydrogen

MASTER OF SCIENCE (LAUREA MAGISTRALE)IN ENERGY ENGINEERING • 2018-2021 • UNIVERSITY OF SAPIENZA (ROME) - ITALY

GPA = 108 / 110

Thesis title: Optimization of trans critical CO2 heat pump Inside desiccant wheel cooling system

BACHELOR OF SCIENCE IN ENGINEERING PHYSICS • 2012-2017 • UNIVERSITY OF TEHRAN - IRAN

GPA 19 / 20

Bachelor Thesis title: Superconductivity properties and Meissner effect

ACCADEMIC EXPERIENCES

CONFERENCE PAPERS:

17th SDEWES conference Paphos – Cyprus – 6_10 NOV 2022:

“From Landfill to Hydrogen: Techno-economic analysis of hybridized hydrogen production systems integrating biogas reforming and Power-to-Gas technologies ”

Co-author

<https://www.paphos2022.sdewes.org/>



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OTHER SKILLS:

Problem-solving
Group work
Public speaking
Project management

FIELD OF INTEREST

- Energy communities
- Energy management
- Smart building
- HVAC systems
- energy Storage systems
- hydrogen
- Renewable energy system design and technologies

77 ° CONGRESSO Nazionale ATI- Bari- Italia -12_14 SEP 2022 :

“Hybrid Hydrogen production: Application of CO₂ heat pump for the high-temperature water electrolysis process”

<https://www.atinazionale.it/>

HYPOTHESIS XVII International Conference Taipei -Taiwan – 26_29 SEP 2022 :

“Coupling low and high-temperature electrolyzers by means of sCO₂ heat pump: A techno-economic analysis.”

<http://www.hypothesis.ws/>

JOURNAL PAPERS:**Renewable and Sustainable Energy Reviews**

<https://www.sciencedirect.com/journal/renewable-and-sustainable-energy-reviews>

Title: “Recent progresses in H₂NG blends use downstream Power-to-Gas policies application: An overview over the last decade”

Corresponding Author: Dr. Gianluigi Lo Basso

Co-Authors: Lorenzo Mario Pastore; Ali Mojtahed; Antonio Sgaramella; Livio de Santoli

Submission date: 02 AUG 2022

State: Under revision

Energy and building

<https://www.sciencedirect.com/journal/energy-and-buildings>

Title: “NZEB: proposing a high efficient open-loop solar cooling layout to implement inside the building sector: comprehensive techno-economic assessment”

Corresponding Author: Ali Mojtahed

Co-Authors: Gianluigi Lo Basso, Ali Mojtahed, Lorenzo Mario Pastore, Livio De Santoli

Submission date: 05 OCT 2022

State : Under revision



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WORK EXPERIENCE

ENERGY ENGINEER • PUYA PRIVATE COMPANY • 2014 – 2018

- Renewable energy resources: especially solar photovoltaic and concentrating solar power and analyzing Iran's market potential for installing renewable power plants.
- Energy management of the office building to adapt more energy efficiency techniques and improve energy performances: (HVAC systems)
- Electricity Tariff and energy policies in Iran

CERTIFICATIONS & AWARDS

- **WINNER OF SAPIENZA PH.D. COMPETITION WITH SCHOLARSHIP 37 ° CYCLES 2021**
- **LANGUAGES:**
 - **ENGLISH**
IELTS
Date of Exam: Nov,19,2016
Results:
Overall: 6.5
Listening: 7.0
Reading: 7.0
Writing: 6.0
Speaking: 6.5
 - **ITALIAN**
B2 level (Capable of fluent communication)
- **COURSERA CERTIFICATION:**
Applied Machine learning in python (University of Michigan)
An introduction to programming the Internet of Things (IoT) specialization
- **LINKEDIN CERTIFICATION:**
Project management
- **KAGGLE CERTIFICATION :**
Introduction to machine learning with python
- **UDEMY:**
Complete Python 3 course.



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- **DIPLOMA FROM MICROELECTRONIC RESEARCH AND DEVELOPMENT CENTRE OF IRAN (MERDCI) WORKSHOP WITH THE SUBJECT OF PHOTOVOLTAIC SOLAR CELLS**

REFERENCE

Prof. Livio De Santoli , University of Sapienza, department of astronautics, electric and energy

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Prof. Mohammad Reza Mohammadzadeh, University of Tehran, department of physics

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