



Nima Bahrami

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Nima Bahrami
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Research Interests

- Renewable Energies
- Energy Economics
- Smart Energy Management
- Blockchain Based Energy Networks
Energy Systems Optimization

Education

2013

Diploma in Mathematics and Physics Discipline, Prof. Reza Highschool, Rasht, Iran, GPA - 19.18/20.

2013-2017

B.Sc., Mechanical Engineering, University of Guilan, Rasht, Iran, GPA - 15.19/20.

2018-2020

M.Sc., Mechanical Engineering, Energy Conversion, Energy Systems, Iran University of Science and Technology, Tehran, Iran. GPA - 16.49/20

Selected Courses: Fuel and Combustion (19.5/20), Energy Systems (19.25/20), Seminar (19.75/20)

Publications

In Press

- N. Bahrami and S. Ghandehariun, **Using Machine Learning Algorithms to Predict Water Evaporation of Ponds**

In Press

- N. Bahrami and S. Ghandehariun, **Designing a Multi-Generation Hybrid Power Station for An Ecotourism Residence**,

In Press

- N. Bahrami and S. Ghandehariun, **Waste-Energy Management and Optimization of A Hybrid Power Station Using PCM**

Volunteering Activities

- Member of Imam Ali Popular Student Relief Society (IAPSRs)

Teaching Experiences

Jul 2015

Physics, Teacher, Ghalamchi Institution, Rasht, Iran.

Working Experiences

Internship

- Radiator Casting and Assembly Section, Iran Radiator Company, Rasht, Iran

Internship

- Guilan NGCC Power Plant, Rasht, Iran

Internship

- Hamedan Solar Farm, Hamedan, Iran

Notable Projects

- Designing a Hybrid FPV-Wind-Hydro Power Station, Master's degree thesis, Sep. 2019 - Present
- Designing a Floating Mechanism for Photovoltaic Panels to Increase Thermal Efficiency, Apr. 2019 - June 2019
- Thermal Design and Analysis of Smart Camera Casing, Padideh Merila Knowledge enterprise, Jan. 2019 - Feb. 2019
- Design and Manufacturing 3-DOM Camera Slider for shooting Time-lapse Videography with the ability to focus on an object. Bachelor's degree thesis, Supervisor: Dr. Reza Jamilnia, Feb. 2017 - Aug. 2017
- Designing A New Strategy for Implementing Blockchain Technology In Energy Sector In Order to Reduce Household Power Consumptions by Monetary Incentives, Mapna Industrial Group, Jul. 2020

Technical Skills

Github Repository

Programming

Python

MATLAB

Javascript

HTML

CSS

R

Eng. Soft.

PVSyst

HOMER

OpenLCA

Catia

Solidworks

Excel

Energy Plan

ROSA

Languages

- Persian: native
- English: Fluent

Hobbies

Sports: Soccer, Squash (Pro), Volleyball, Skate (Pro & Gold Medal)
Others: Movies, Music, Web Design, Podcasting, Collage Art