Nima Bahrami

School of Mechanical Engineering,
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Nima Bahrami
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Research Interests

- Renewable Energies
- Energy Economics
- Smart Energy Management
- Machine Learning for Energy Systems

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 – Present **M.Sc., Mechanical Engineering, Energy Conversion, Energy Systems,** Iran University of Science and Technology, Tehran, Iran. GPA – 16.42/20
Selected Courses: Fuel and Combustion (19.5/20), Energy Systems (19.25/20), Seminar (19.75/20)

Publications

- N. Bahrami and S. Ghandehariun. “Economic Assessment of Solar-based Hydrogen for Methanol Production” Energy Conversion and Management (2019).
- N. Bahrami and S. Ghandehariun. “Designing a Renewable-based Multi-generation System for an Eco-tourism Residence” Submitted.
- N. Bahrami and S. Ghandehariun. “Implementing Machine Learning Algorithms to Predict Wind Speed for a Hybrid Small-scale Power Generation System” Submitted.

Teaching Experiences

July 2015 - Sep. 2015 **Physics,** Teacher, Ghalamchi Institution, Rasht, Iran.

Sep 2018 - Jan. 2019 **Thermodynamics-II,** Teaching Assistant, Dr. S. Ghandehariun, Mechanical Engineering Department, Iran University of Science and Technology

Working Experiences

Internship

- Radiator Casting and Assembly Section, Iran Radiator Compony, Rasht, Iran
- Guilan NGCC Power Plant, Rasht, Iran
- Hamedan Solar farm, Hamedan, Iran

Notable Projects

- Designing a Heat Recovery Unit for Hydrogen Production, Master's Degree thesis, Supervisor: Dr. Samane Ghandehariun, 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
- Programming a Multi-generation Hybrid Cycle with RO Desalination Jan. 2020

Technical Skills

Programming	Python, Matlab, HTML, CSS, Java Script
Engineering Softwares	Ansys, Aspen Plus, PVSyst, Homer, Solidworks, Catia, PipeFlow, FTP impulse, Energy Plan

Languages

- Persian: Native
- English: Fluent

Hobbies

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