

Seyed Reza Mirbagheri

Mechanical Engineer

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Education

2013 – 2018:

BSc in Mechanical Engineering

Islamic Azad University, Karaj, Iran

(Ranked 2nd best university in Iran based on [USnews](#))

Thesis: Water tank level control using LPV (Linear Parameter Varying)
implementation with MATLAB

Supervisor: Dr. Abolfath Nikranjbar

Research Interests

- Intelligent Control and Optimization using AI, Machine Learning
- Robotic Modeling and Control
- IOT and Electronic Boards and Devices
- 3D Printing Technology
- Unmanned Systems (UAVs)
- Drones and Quadcopter Control System

Skills

- **Programming Language:** MATLAB, Python, C#, C++
- **Web Programming:** HTML, CSS, JavaScript, jQuery, Asp.net MVC, Django (Learning)
- **Software:** Simulink (Learning), PVsyst (Solar Panels) – MESHMIXER (3D printing)
- **Computer-aided Design (CAD):** CATIA
- **Machine Learning:** Python (NumPy – Pandas) (Learning)
- **Microcontroller and Microprocessor:** Arduino (Learning) - Raspberry Pi (Learning)

Certificates

- **Machine Learning Summer School:** 2021
NTU (National Taiwan University)
- **Machine Learning with Python:** 2021
IBM (Coursera)
- **Speak English Professionally: In Person, Online & On the Phone:** 2021
Georgia Institute of Technology (Coursera)
- **Getting Started with Essay Writing:** 2021

UCI (Division of Continuing Education) (Coursera)

- **Photovoltaic Systems Designer (Renewable & Alternative Energies Technology):** 07/2019
Iran Technical and Vocational Training Organization
- **Complex & Freeform surfaces using CATIA Software (Advanced):** 06/2019
Iran Technical and Vocational Training Organization
- **Rapid Prototyping with 3D printing method:** 01/2019
Iran Technical and Vocational Training Organization
- **Hydrodynamic Power Transmission System Repairman:** 10/2018
Iran Technical and Vocational Training Organization
- **CATIA Operator:** 08/2018
Iran Technical and Vocational Training Organization
- **NANO Technology General Training:** 2013
Chamran Nanotechnology Research Center

Research Projects

- Design, Analyses, and Prototype rehabilitation instruments by CATIA, MESHMIXER software, and 3D printer to help people who can't use their hands to pick up cups, spoon, fork, cellphone, and variety of different products.
- Design an Off-grid and On-grid solar farm using PVsyst software.

Work Experience

09/2019 – 06-2020	As a Teacher in Middle and High School (Grade 7 to 9)
11/2018 – 01/2019	Photovoltaic Systems Designer Intern
09/2018 - 11/2018	Rapid Prototyping with 3D printing method Intern
09/2018 - 11/2018	Complex & Freeform surfaces using CATIA Software Intern
08/2018 – 10/2018	Hydrodynamic Power Transmission System Intern
06/2018 – 08-2018	CATIA Operator Intern
06/2017 – 06/2018:	As an Educational Counselor (sophomore students) at Ghalamchi Cultural Education Center

Language & Test Scores

- **English:** IELTS Academic 6 - 31-03-2022
- **Korean:** Pre-Intermediate
- **Persian:** Native

Hobbies

- Martial arts, Mountaineering, Music, Gardening, Tools making

References

Dr. Abolfath Nikranjbar, Associate Professor

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Dr. Ebrahim Salary, Associate Professor

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Dr. Soheil Porkhial, Associate Professor

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