### Seyyedeh Monireh Mortazavi Azad

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# **Summary**

Current postgraduate student with an interest in machine learning, neural network and deep learning to address control system engineering issues. Previous work in traffic controlling which has been a multipurpose project involved image processing, traffic engineering base knowledge, simulation and proposing method with multi-agent reinforcement learning.

#### Education

### BU-ALI SINA UNIVERSITY, THE STATE UNIVERSITY OF HAMADAN

Master of Science, Electrical Engineering-Control system (GPA: 3.42/4.00)

October 2020-present

• Relevant Courses: Machine Learning, System Identification, Fault diagnosis and Fault Tolerant Control, Non-Linear Control, Optimal Control, Multivariable Control

# HAMADAN UNIVERSITY OF TECHNOLOGY, THE STATE UNIVERSITY OF HAMADAN

Bachelor of Science, Electrical Engineering-Control system

September 2015- September 2019

• Relevant Courses: Artificial Neural Network, Renewable Energy, Research Methodology

# **Experience**

- Simulation of a solar plant with SIMULIN

  Studied the impacts of temperature rise on the efficiency of plant, and the effects of changing in three-phase load;

  20° C falling the temperature caused a 7.4 percent rise in output voltage.
- Redesigned an economical Arduino-based tensile tester
   March 2019- August 2019
   Manufactured an economical tensile tester and monitoring and receiving of information via a Bluetooth module; decreased the cost using industrial tester for students of more than 50 percent.
- Constructed of electric vehicle charging monitoring system in a solar fast charging station.

February 2019-September 2019

Reduced time of battery fully charged of one-third and monitored the process via AVR and solar panels to generate electricity power using by battery.

**Skills** 

Analytical Tools: MS Excel, MS PowerPoint

**Programing Language:** Python, MATLAB, Simulink, Arduino **Other software**: Fritzing, AVR studio, Sumo Advance English

Languages: English C1