

AMIRMOHAMMAD RADMEHR

PERSONAL DATA

ADDRESS: University of Tehran, Tehran, Iran WEBSITE: amirradmehr.wixsite.com/work
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EDUCATION

- 2016 - 2021 B.Sc. in Electrical Engineering (CONTROL)
University of Tehran, (*ranked 1st top university in Iran according to 2020 US news ranking*)
- Overall GPA: 3.1/4.0 | Major GPA: 3.64/4.0
 - B.Sc. Thesis Title : [Animatronic Eye Mechanism and Face Pose Imitation of a Humanoid Robot using the Agile Eye](#) Mark: 20/20
 - B.Sc. Thesis Supervisor: Dr. Mehdi Tale Masouleh

PUBLICATIONS

- 2021 Radmehr, A., Asgari, M., & Masouleh, M. T. (2021). [Experimental Study on the Imitation of the Human Neck-and-Eye Pose Using the 3-DOF Agile Eye Parallel robot Based on a Deep Neural Network Approach](#) 2021 International Conference on Robotics and Mechatronics, Tehran, Iran. (ICROM). (submitted)

HONORS AND AWARDS

- 2016 Ranked within the top 0.2% among more than 160000 participants in Iranian university entrance exam in the Mathematics and Physics discipline
- 2016 Received national undergraduate full scholarships

RESEARCH INTERESTS

- Machine Learning
- Automation
- Adaptive Control
- Robot Motion
- Internet of Things
- Signal/Image Processing

ACADEMIC PROJECTS

- **Frame Prediction - Artificial Neural Network**
Created a pendulum clip and then, using LSTM architecture, predicted and constructed the frame after a given sequence
Python Tensorflow Keras
- **Stock Prediction - Artificial Neural Network**
using yahoo finance utilized models like LSTM, GRU and RNN to predict prices of a particular stock
Python Tensorflow Keras
- **Ball and Plate - Mechatronics**
Fabricated a robot that stabilizes a nimble ball in center of a plate
ROS, Python-OpenCV, MATLAB-SimMechanics, SolidWorks, Vision, PID
- **Automating Production Process - Industrial Automation**
Implemented a production line and Then programmed it to automate the process
TIA Portal, PLCSim, FactoryIO, Automation
- **Route Optimization - Operation Research**
Implemented a set of locations in map and used Python prgramming to find the least time consuming path
Python, Google Map, Linear Algebra
- **Clapper Switch - Microcontroler**
Fabricated a switch that responds to different way of clapping
CodeVision, ATmega16, Altium Designer, Smart Home,
- **Tachometer - Electrical Machines I Lab**

Designed a tachometer using Arduino Uno, DC motor and other electrical components

Arduino Uno, Arduino IDE

- **Line Following Robot - General Workshop**

Fabricated an automated guided robot to follow a line with various disturbance

Altium Designer, CodeVision, ATmega32

SELECTED COURSES

- | | | |
|-----------------------------------|----------------------------------|------------------------------------|
| • Artificial Neural Network 17/20 | • Robotics 17/20 | • Digital Control Systems 18.75/20 |
| • Mechatronics 20/20 | • Linear Control Systems 16.1/20 | • Instrumentation 17/20 |
| • Modern Control 15.5/20 | • Industrial Automation 17.5/20 | • Microprocessor 20/20 |
| • Linear Algebra 17.4/20 | • Operation Research 18/20 | |

WORK EXPERIENCE

JULY-SEPTEMBER 2019

Intern at Electrical Machine Laboratory, University of Tehran

Microgrid Implementation

Designed a PID controller for a coupled motor-generator which was an element of a bigger power network

TEACHING EXPERIENCE

FALL 2021

Artificial Neural Network DR. AHMAD KALHOR

Responsibilities: Home Work, Project developer/grader, Content Creator

SPRING 2020

Mechatronics DR. MEHDI TALE MASOULEH

Responsibilities: Home work developer/grader

FALL 2020

Modern Control DR. HAMED KEBRAIEI

Responsibilities: Homework developer/grader

FALL 2020

Industrial Control DR. AHMAD KALHOR

Responsibilities: Content creator, Homework developer/grader

FALL 2020

Instrumentation DR. MOHAMMADREZA NAYERI

Responsibilities: Homework grader

FALL 2020

Operation Research DR. MOHAMMAD SHOKRI

Responsibilities: Content Creator, Home work developer/grader

PROFESSIONAL SKILLS

PROGRAMMING LANGUAGE

• Python

• MATLAB

• C/C++

HARDWARE

• AVR

• PLC

SOFTWARE

• ROS

• SolidWorks

• Simulink

• Altium Designer

• Ubuntu

• \LaTeX

LANGUAGES

ENGLISH: Fluent

TOEFL iBT: 106
R28,L30,S24,W24

GRE: VR 142, QR 167,
AW 4.0

FARSI: Native

GERMAN: Basic
knowledge