MOSTAFA PIRAN SHENDERSHAMI

BASIC INFORMATION

Iran, Ardabil
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ABOUT ME

I am a lifelong learner with a passion for electronics, robotics, machine learning, and manufacturing. My diverse skill set includes coding expertise in C/C++ for embedded systems, MATLAB, and Python, as well as experience with time series data, deep learning networks, and robotic systems.

I am a trustworthy and creative individual with a strong work ethic and an artistic eye. My problem-solving skills are characterized by critical thinking and effective time management. I am also recognized for my upbeat and passionate personality, which makes me a collaborative and dynamic team member. My creative mindset is a valuable asset to any team, as I am always coming up with new ideas and perspectives.

Overall, I am a highly motivated and skilled student with a strong academic background and a passion for learning. I am confident that my skills and experience would be a valuable asset to any educational or academic program.

EDUCATION

MS in electronic engineer   2020 - 2023
Tabriz University | Iran, Tabriz | Grade: 17.11 / 20
Thesis Topic: Design of epileptic activity detection system using deep learning methods from electrocorticographic signals in rats
Research: I recorded brain signals from a sample of rats to develop and evaluate deep-learning models for the diagnosis of epilepsy. Finally, I reached 96% accuracy in the diagnosis.

BS in electronic engineer   2014 - 2018
University of Mohaghegh Ardabili (UMA) | Iran, Ardabil | Grade: 16.63 / 20
Final Projects:
- Designed and implemented a PID controller for a DC motor.
- Constructed a human face recognition system based on the Raspberry Pi board.

SKILLS

Implementation of Artificial Intelligence:
        Machine Learning | Deep Learning | Image Processing | OpenCV | Python | Keras | Matlab
Programming for Microcontrollers and Interface:
        AVR | STM32 | Arduino | Raspberry Pi | C/C++ | Linux
Design and Production of Electronic Boards and Devices:
        Proteus | Altium Designer | Cadence | VHDL | Hspice

3D Design and Print:
    3D Print | CNC | Corel Draw | CURA
Personality Skills:
    Responsibility | Teamwork spirit | Team Leadership
Office and Text Software:
    Word | Powerpoint | Excel | Latex

WORK EXPERIENCE

R&D Engineer | Iran, Ardabil   Oct 2018 - Oct 2022
EPAS Technology
- Gained extensive experience in manufacturing electrical and electronic devices and equipment, including:
1. Electronics manufacturing | Printed circuit board (PCB) design | Digital circuit design | STM32 | IoT

Audio and video expert | Iran, Ardabil   Apr 2021 - Sep 2022
Iran Broadcasting
- Managed audio and video network and fixed PC problems.
- Expertise in network administration, digital electronics, and PC software and hardware.

Secretary of the Scientific Society Robotic | Iran, Ardabil   Sep 2016 - Sep 2018
Mohaghegh Ardebili University
- Laboratory RoboticsTeam Leadership

Lecturer in electrical engineering | Iran, Ardabil   Sep 2016 - Sep 2022
Mohaghegh Ardebili University
- Control system design | Arduino Coding | Machine learning design (C++, Python, MATLAB)

LANGUAGES

English

Azerbaijani

Persian

HONOURS & CERTIFICATIONS

1. Achieved the CS50 Introduction to Computer Science course completion certificate in 2023.
2. Innovated a cylinder head converter for combustion engines, transforming them into compressed engines in 2021.
3. Attained the 4th position worldwide in the field of mine detection robots at the IRAN OPEN 2017 competition.
4. Secured the first position in the National Robotics Championship of the Mashhad Nour Cup in 2015.
5. Innovated a new linear pump design utilizing a magnet and a one-way valve mechanism in 2015.
6. Earned the Iran Technical and Professional Certificate in Industrial Electricity in 2014.

INTERESTS

- Dedicated to Robotics, Machine Learning, Electronics, Internet of Things (IoT), Manufacturing, and Research.