Reza Adinepour

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Research

- ♦ Machine Learning
- Interests ♦ Deep Learning
 - ♦ Image Processing
 - ♦ Computer Vision ♦ Pattern Recognition
 - ♦ Real-time and Embedded Systems

EDUCATION

B.Sc. in Electrical Engineering.

Sept. 2019 - Jun. 2023

Shahrood University of Technology, Shahrood, Iran

- Thesis: "Design Real Time Face Recognition Systems Based on LBP features on ODROID-XU4 Embedded Computer Board"
- o Advisor: Prof. Alireza Ahmadifard
- o GPA: 3.28/4

GPA of Last 1 Years: 3.43/4 (32 credits)

Diploma in Mathematics and Physics Discipline, Seyyed Ahmad Khomeini High School, Mashhad, Iran

Sept. 2015 - May. 2019

 \circ Diploma GPA: 3.66/4

ATTENDED Conferences

- ♦ The Annual Conference on Prospects of Electrical Engineering (ReACT2023), 2023, Tehran, Iran
- ♦ The Annual Conference on Prospects of Electrical Engineering (ReACT2022), 2022, Tehran, Iran
- ♦ Rahneshan National competition, 2021, Tehran, Iran
- ♦ 5th Iranian Conference on Communications Engineering (ICCE2021), 2021, Shahrood, Iran
- ♦ The Annual Conference on Prospects of Electrical Engineering (ReACT2021), 2021, Tehran, Iran
- ♦ Amirkabir University of Technology Robotics Summer School, 2020, Tehran, Iran

Research EXPERIENCE

♦ Real Time Embedded Face Recognition System

Sep. 2022 - Jun. 2023

Research Assistant, Supervisor: Prof. Alireza Ahmadifard, Department of Electrical engineering, Shahrood University of Technology.

- · Studies and research focused on LBP Features
- I design an embedded systems that can detect and recognition human face, based on LBP features. This algorithm implement on **odroid** embedded computer.
- ♦ Otoacoustic Emissions

Jun. 2021 - Sep. 2022

Research Assistant, Supervisor: Prof. Mohammad Reza Ashraf, Department of Electrical engineering, Shahrood University of Technology.

· Studies and research focused on Hard Ware of OAE's

Otoacoustic emissions (OAEs) are widely used in universal newborn hearing screening programs. In this Research we are looking for design and implement of OAE device for recognition hearing loss in childrens.

Teaching EXPERIENCE

Teaching Assistant-Shahrood University of Technology

o Digital Electronics

Spring 2023

• Signal and Systems

Spring 2023, Fall 2022, Spring 2022, Fall 2021

• Analog Electronic

Fall 2020, Spring 2020

Fall 2022

o Circuit Theory

Tutor-Shahrood, Iran

o Private Altium Designer Tutor

Apr. 2023 - Aug. 2023

	 Tutor-Mashhad, Iran ○ Private ARM-STM32 Microcontroller Programming Tutor ○ Private MATLAB Programming Tutor ○ Private C and C++ Programming Tutor 	2021 - Jan. 2022 2021 - Jan. 2022 2020 - Jan. 2022
Honors and Awards	 ♦ Ranked 2th (top 0.1%) in the University, Among more than 150 Students. ♦ Chief of Student Scientific Association of Electrical Engineering 	2023 2022
NOTABLE PROJECTS	⋄ Embedded Hardware Implementation of Face Recognition System Barral Networks Bachelor Thesis, Shahrood University of Technology, Shahrood, Iran	sed on Deep Neu-
	 ◇ Design and Implementation of Sine Wave Generator Using STM32 Board Top Project in OAE Challenge, Integrated Circuit Laboratory, Shahrood University Shahrood, Iran 	
	 ◇ Implementation of Real Time Object Detection Using YoLo Network Course Project for Neural Networks, Shahrood University of Technology, Shahr ◇ Implementation of Real Time Face Mask Detection Using Neural Networks, Shahrood University of Technology, Shahrood University of Technology, Shahrood 	rood, Iran etwork rood, Iran
	 ⋄ Implementation of Handwritten Digit Recognition Using Neural Net Course Project for Neural Networks, Shahrood University of Technology, Shahr ⋄ Implementation of Car Tracking With OpenCV Course Project for Advanced Programming in C++, Shahrood University of Technology 	rood, Iran
	⋄ Implementation of Student Registration Program Course Project for Advanced Programming in C++, Shahrood University of Tecliran	
	 ⋄ Implementation of Real Time Face Recognition Using Python ⋄ Implementation of Object Tracking with OpenCV & Python 	
	\diamond Implementation of Vehicles Counton on Images Using Python	
	\diamond Implementation of Real Time Color Detection Using Python	
	♦ Implementation of ATM User Interface Program Using Python Top mark project in the course of Object Oriented Programming in Python, GARD Academy, Tehran, Iran	
	 ◇ Design and Implementation of Noise Reduction Filter Using MATLAB Course Project for Communication Systems, Shahrood University of Technology, Shahrood, Iran ◇ Design and Implementation of 16-bit ALU Using VHDL ◇ Implementation of isolated Smart Relay Control Board Using AVR Microcontroller Top mark project in the course of AVR Programming, GARD Academy, Tehran, Iran ◇ Implementation of Digital lock System With RFID Option Using AVR Microcontroller Course Project for Microprocessor, Shahrood University of Technology, Shahrood, Iran 	
	 ⋄ Implementation of Room Temperature Controller Using ARM Micro Course Project for Microprocessor, Shahrood University of Technology, Shahrood ♥ Design and Implementation of Multilayer PCB Using Altium Design ⋄ Design and Implementation of STM32-F103-RET6 Based Developmentation Designer 	od, Iran er
	Top mark project in the course of ARM Programming, GARD Academy, Tehra Design and Implementation of AT-Mega32 Based Development Boa	an, Iran

Designer

Course Project for Microprocessor, Shahrood University of Technology, Shahrood, Iran

 Design and Implementation of AT-Mega128 Based Development Board Using Altium Designer

Top mark project in the course of AVR Programming, GARD Academy, Tehran, Iran

 \diamond Design and Implementation of Single Stage Amplifier

Course Project for Analog Electronics, Shahrood University of Technology, Shahrood, Iran

⋄ Design and Implementation of Simple Power Supply

Course Project for Electronic Lab, Shahrood University of Technology, Shahrood, Iran

Work Experience

R&D department Member, at Fin Company

Jun. 2023 - Now

Tehran, Iran

Job Description: Signal Processing Developer

R&D department Member, at Radan Electronic StartUp

May. 2022 - Aug. 2022

Mashhad, Iran

Job Description: Embedded Software Developer

R&D department Member, at Integrated Circuit Laboratory

Jun. 2021 - Sep. 2022

Shahrood, Iran

Job Description: Head of The Hard Ware department on OAE Project

SKILLS

- ♦ **Programming Languages:** C, C++, Python, Matlab, VHDL, Verilog HDL, Arduino, NI Lab-VIEW
- ♦ Machine Learning Tools: PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, NumPy, Pandas
- ⋄ Applications and Scientific Tools: Altium Designer, KiCad, ADS, Hspice, Pspice, Proteus, Xilinx Vivado, Xilinx ISE, IAR, Keil, CubeMX, CodeVision AVR, ModelSim, Atmel Studio, Arduino IDE, Microsoft Visual Studio, Eclipse, Git, JetBrains Pycharm & Clion, Embarcadero Dev-C++, Matlab, Matlab Simulink, MS Office
- ♦ Operating Systems: Linux(Ubuntu), Unix, Microsoft Windows
- ♦ Typesetting: T_EX, L^AT_EX, VIM , Microsoft Word, Gnuplot

LANGUAGES

- ♦ **Persian:** Native Language
- ♦ English: Intermediate Listener, Novice Speaker, Advanced Reading and Writing

Hobbies

- ♦ **Adventure:** Hiking, Hitchhiking, Camping
- ♦ **Art:** Guitarist
- ♦ Other Hobbies: Classic Music, Freelance Blog Writer, Reading I love the feeling of sharing my experiences with others through my blog.