Reza Adinepour

Department of Computer Engineering, Tehran Polytechnique, Tehran, Iran Homepage: https://rezaadinepour.github.io E-mail: r3zaadinep0ur@gmail.com Cell Phone: +98 (935) 470 5561

RESEARCH

- \diamond Machine Learning
- - ♦ Image Processing
 - \diamond Computer Vision
 - ♦ Pattern Recognition
 - ♦ Real-time and Embedded Systems
 - ♦ Hardware Accelerator

EDUCATION

M.Sc. in Computer Engineering,

Sept. 2023 - Present

Amirkabir University of Technology (Tehran Polytechnique), Tehran, Iran

- Thesis: "Coming soon"
- o Advisor: Prof. Morteza Saheb Zamani

B.Sc. in Electrical Engineering,

Sept. 2019 - Jun. 2023

Sept. 2015 - May. 2019

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

• 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: Dr. 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 SystemsAnalog ElectronicCircuit Theory	Spring 2023, Fall 2022, Sprin Fall	ng 2022, Fall 2021 Fall 2022 2020, Spring 2020
	Tutor-Shahrood, IranPrivate Altium Designer Tutor	Apr.	2023 - Aug. 2023
	 Tutor-Mashhad, Iran Private ARM-STM32 Microcontroller Private MATLAB Programming Tuto Private C and C++ Programming Tu 	or	2021 - Jan. 2022 2021 - Jan. 2022 2020 - Jan. 2022
Honors and Awards	 Ranked 2th (top 1%) in Department of Electrology, Among more than 150 Students. Chief of Student Scientific Association of Electrology. 		
NOTABLE PROJECTS	ral Networks Bachelor Thesis, Shahrood University of Techn ◇ Design and Implementation of Sine Wa Board Top Project in OAE Challenge, Integrated Circ Shahrood, Iran ◇ Implementation of Real Time Object Dec Course Project for Neural Networks, Shahrood ◇ Implementation of Real Time Face Mask Course Project for Neural Networks, Shahrood ◇ Implementation of Handwritten Digit Rec Course Project for Neural Networks, Shahrood ◇ Implementation of Car Tracking With Occurse Project for Advanced Programming in Car Iran ◇ Implementation of Student Registration	of Sine Wave Generator Using STM32-F446RE Nucleo	
	 ♦ 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

 \diamond Design and Implementation of 16-bit ALU Using VHDL

Course Project for Communication Systems, Shahrood University of Technology, Shahrood, Iran

♦ Implementation of isolated Smart Relay Control Board Using AVR Microcontroller

♦ Implementation of Digital lock System With RFID Option Using AVR Microcontroller

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

- Course Project for Microprocessor, Shahrood University of Technology, Shahrood, Iran
- ♦ Implementation of Room Temperature Controller Using ARM Microcontroller Course Project for Microprocessor, Shahrood University of Technology, Shahrood, Iran
- ♦ Design and Implementation of Multilayer PCB Using Altium Designer
- ♦ Design and Implementation of STM32-F103-RET6 Based Development Board Using Altium Designer

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

- \diamond Design and Implementation of AT-Mega32 Based Development Board Using Altium 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
- ♦ 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 - Present

Tehran, Iran

Job Description: Biomedical 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.