Reza Adinepour

Department of Computer Engineering, Tehran Polytechnique, Tehran, Iran

RESEARCH

- ♦ AI Hardware Accelerators
- Interests
- ♦ Machine Learning
- ♦ Neural Networks and Deep Learning
- ♦ Signal Processing
- ♦ Cyber-Physical Systems(CPS)
- ♦ Parallel and Distributed Systems
- ♦ Real-time and Embedded Systems

EDUCATION

M.Sc. in Computer Engineering,

Sept. 2023 - Present

Homepage: https://rezaadinepour.github.io/

E-mail: adinepour@aut.ac.ir Cell Phone: +98 (935) 470 5561

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

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)
- ♦ The Annual Conference on Prospects of Electrical Engineering (ReACT2022)
 ♦ Rahneshan National competition (INEF)
- ♦ 5th Iranian Conference on Communications Engineering (ICCE2021)
- ♦ The Annual Conference on Prospects of Electrical Engineering (ReACT2021)
- ♦ Amirkabir University of Technology Robotics Summer School (AUTSS2021)

RESEARCH COLLABORATIONS

♦ 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 Invited Lecturer-Amirkabir University of Technology

o Logic Circuits Lab

Spring 2024

o Logic Circuits Lab

Fall 2023

 Digital E Signal an Analog E Circuit T Tutor-Shahro Private A Private F 	dd Systems Electronic Cheory ood, Iran Altium Designer Tutor add, Iran Python Programming Tutor	Spring 2023 Spring 2023, Fall 2022, Spring 2022, Fall 2021 Fall 2022 Fall 2020, Spring 2020 Apr. 2023 - Aug. 2023 2021 - Jan. 2022
	MATLAB Programming Tutor C and C++ Programming Tutor	2021 - Jan. 2022 2020 - Jan. 2022
AWARDS of Technolog $ \diamond \ \mathbf{Ranked} \ 2^{\mathrm{nd}} ($ $ \mathbf{Among Mon} $	gy (Tehran Polytechnique)	Fith Talent Credit at Amirkabir University Engineering, Shahrood University of Technology, 2023 ctrical Engineering 2022
PROJECTS Design Real Embedded () Bachelor Thee Real Time () Course Project Real Time II Course Project Persian Hare Course Project SDI Based II Course Project Iran Number Course Plate Real Time II MFC Based Course Project Iran Sinusoidal Verop Project in	Computer Board sis, Shahrood University of Technolog Object Detection Using YOLO N et for Neural Networks, Shahrood University of Technolog Face Mask Detection Using Mob et for Neural Networks, Shahrood University of Neural Networks, Shahrood Uni	Network iversity of Technology, Shahrood, Iran ileNetV2

♦ Design and Implementation of STM32-F103-RET6 Development Board Using Altium Designer

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

- ♦ Digital lock System With RFID Option Using AVR Microcontroller </Source>
 Course Project for Microprocessor, Shahrood University of Technology, Shahrood, Iran
- ♦ 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 Room Temperature Controller Using ARM Microcontroller Course Project for Microprocessor, Shahrood University of Technology, Shahrood, 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

WORK EXPERIENCE

Member of Digital System Design Automation Laboratory

Aug. 2023 - Present

Tehran, Iran

Job Description: Research Assistant

R&D department Member, at Fin Company

Jun. 2023 - Sep. 2023

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, LabVIEW
- ♦ Machine Learning Tools: PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, NumPy, Pandas
- Applications and Scientific Tools: Xilinx Vivado, Xilinx ISE, Gem5, Matlab, IAR, Keil, CubeMX, CodeVision AVR, ModelSim, Altium Designer, KiCad, ADS, Spice, Proteus, Atmel Studio, Arduino IDE, Microsoft Visual Studio, Git, JetBrains Pycharm & Clion
- ♦ 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.