SINA OJAGHI

Sabbatical for PhD Students

- DoB: 19/9/1995
- Marital Status: Single
- Military Service: Educational Exemption

I was born in Hamedan but now I live in Tehran. I am a Ph.D. student in Computer Architecture at the University of Tehran and an Instructor at the Hamedan University of Technology. I am very active and fond of new experiences.

Contact

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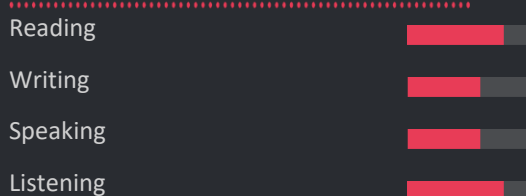sina.ojaghi@ut.ac.ir

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📞 02144602490

🌐 sinaoj.com
sinaoj.ir

📍 P23, marvi , W kamali , Pounak, Tehran, Iran

Language

English

Reading
Writing
Speaking
Listening

Education

PhD of Computer Engineering

Branch: Computer architecture
Institute/University: Tehran university
Tehran, Iran
GPA: 18.05
Since 2020

Master of Computer Engineering

Branch: Computer architecture
Institute/University: islamic azad university
science and research branch
Tehran, Iran
GPA: 18.45
2017 - 2019

Bachelor of Computer Engineering

Branch: Computer architecture of digital systems
Institute/University: Hamadan University of Technology
Hamadan, Iran
GPA: 16.34
2013 - 2017

Research

Design and manufacture of audio processor for smartening domestically produced vehicles
Publisher : Islamic Azad University, Science and Research Branch
Master Thesis

Transfer voice data under secure protocol and use it in smart homes
Publisher : Hamedan university of technology
Bachelor Thesis

Iranian Vehicle images dataset for object detection algorithm
Publisher : Signal, Image and Video Processing (springer)
September 2022
Submitted and under review

TVD Vehicle Dataset: A new Benchmark for object detection
Publisher : Signal, Image and Video Processing (springer)
January 2023
Submitted and under review

Stress-strain modeling of an Al-Mg using an artificial neural network
Publisher : 3 rd International Conference on Electrical, Computer and Mechanical Engineering
Approved and published
Link : https://civilica.com/doc/1128854/

Modeling of AZ52 flow curve at high temperature by implicating the genetic algorithm method
Publisher : 3 rd International Conference on Electrical, Computer and Mechanical Engineering
Approved and published
Link : https://civilica.com/doc/1128855/

Honors

- the rank of 13 PhD among the candidates in the field of computer architecture in 1399

- first rank in the master's degree among the students of Islamic Azad University, Science and Research Branch, entered in 2017

- second rank in the undergraduate level among the students of Hamadan University of Technology, entered in 2013

- first place in ACM competitions in Hamedan province

- fourth place in ACM competitions in the west of iran

- score 513 on the Tolimo language test

sina-ojaghi

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Skills

100 %	100 %	80 %
Vhdl programming language	Python programming	system verilog
100 %	100 %	80 %
Matlab programming language	Embedded linux Raspberry Pi	Programming language c++, c
80 %	80 %	80 %
Java programming language	adobe photoshop	Arm programming

Certificates

- Selection of projects: home cleaning robot, rescue robot, patient room monitoring and smartening to be used in a smart hospital as the top projects of Hamedan University of Technology computer department to enter the Elcamp exhibition in Hamedan province.

- Selection of projects: home cleaning robot, rescue robot, patient room monitoring and smartening to be used in a smart hospital as the top projects of Hamedan University of Technology computer department to enter the research, technology and art market week exhibition of Hamedan province.

- Selection of projects: home cleaning robot, rescue robot, patient room monitoring and smartening to be used in a smart hospital as the top projects of Hamedan University of Technology computer department to enter the conference on the role of economic prosperity in the prevention of social crimes.

Projects

Ideation, design and implementation of targeted internship site
For : Hamadan University of Technology
 2016
The site we designed worked for about 3 years at the university and then became inaccessible due to the more comprehensive Golestan system.
Link : http://intern.hut.ac.ir

Verification Calculator II & III
For : Dr. siamak mohammadi
January 2021
This verification includes: circuit performance simulation and design of a Stimuli production platform and Golden Model design and Checker design and Scoreboard design and implementation of Coverage techniques

Training and replacing the heavy part of the circuit with a neural network and accelerating the circuit

For : Dr. Modaresi

June 2021

Investigation and detection of hardware malware in AES-T300 RS232-T400

For : Dr. siamak mohammadi

June 2021

Automatic annotation of photos with genetic algorithm in MATLAB environment

For : Hamadan University of Technology

2017

computer vision lesson project and this project was used to identify the status of the signature and the owner of the signature in banking operations.

Data transfer in FPGAs (UART) in VHDL language in ISE environment

For : Hamadan University of Technology

2015

Data transfer lesson project

MIPS processor design with some commands in VHDL language in ISE environment

For : Hamadan University of Technology

2009

Computer architecture lesson project

Temperature monitoring of factories in C language in proteus environment

For : Hamadan University of Technology

2013

Microprocessor and assembly lesson project

Work Experience

Instructor artificial intelligence
Hamedan University of Technology

Hamadan, Iran

Since : September 2021

Tasks and Achievements :

■ Department of Computer and IT Engineering and Department of Electrical Control and Electronics Engineering

Idea developer and senior consultant of targeted internship site
Hamedan university of technology

Hamadan, Iran

September 2016 - January 2019

Tasks and Achievements :

■ link: http://intern.hut.ac.ir/

Secretary and speaker of Cyber-Physical Systems society if Iran
CPSSI

Tehran, Iran

Since : March 2022

Tasks and Achievements :

■ link: https://cpssi.ir/

T.A. Functional Verification of HDL Models (Master & PhD)
University of Tehran

Tehran, Iran

Since : September 2021

T.A. Computer network (Master & Bachelor)
University of Tehran

Iran

Instructor research methods
Hamedan University of Technology

Hamadan, Iran

Since : September 2021

Tasks and Achievements :

■ Department of Electrical Control and Electronics Engineering and Department of Computer and IT Engineering

R & D
NABZ

Tehran, Iran

November 2019 - April 2020

Tasks and Achievements :

■ link : https://nabzgroup.com/

T.A. Hardware Security and Trust (Master & PhD)
University of Tehran

Tehran, Iran

Since : January 2023

T.A. Performance Evaluation (Master & PhD)
University of Tehran

Tehran, Iran

Since : December 2021

T.A microprocessor and assembly language (bachelor of science)
Hamedan university of technology

Hamadan, Iran

September 2015 - June 2016

T.A. Computer architecture (bachelor of science)
Hamedan university of technology

Hamadan, Iran

December 2015 - December 2016

T.A. Discrete Mathematics (bachelor of science)
Hamedan university of technology

Hamadan, Iran

December 2015 - June 2016

teaching microprocessor and assembly language
Computer Science Association in Hamadan University of Technology

Hamadan, Iran

September 2016 - June 2017

teaching Digital Electronics
Computer Science Association in Hamadan University of Technology

Hamadan, Iran

December 2016 - June 2017

teaching algorithm design
Computer Science Association in Hamadan University of Technology

Hamadan, Iran

December 2015 - June 2016

Supporter, group manager
Qalam Chi Educational Foundation

Hamadan, Iran

September 2015 - May 2017

teaching computer
School Dar ol Fonoon Hamedan

Hamadan, Iran

September 2014 - May 2016

T.A. logic circuits (bachelor of science)
Hamedan university of technology

Hamadan, Iran

December 2015 - June 2016

teaching Data transfer and telecommunications
Computer Science Association in Hamadan University of Technology

Hamadan, Iran

December 2016 - June 2017

teaching Computer architecture
Computer Science Association in Hamadan University of Technology

Hamadan, Iran

February 2015 - January 2017

teaching logic circuits
Computer Science Association in Hamadan University of Technology

Hamadan, Iran

September 2014 - December 2015

teaching c programming language
Computer Science Association in Hamadan University of Technology

Hamadan, Iran

September 2014 - December 2015

Laptop and computer software and hardware repairs
DPC

Hamadan, Iran

May 2013 - September 2014

teaching IOT
School Khadije kobra tehran

Tehran, Iran

September 2017 - May 2019

References

Dr. Siamak Mohammadi
Computer department group manager Tehran University
smohammadi@ut.ac.ir
Dr. Ahmad khonsari
Member of the Scientific Council of the IPM Basic Knowledge Research Institute
ak@ipm.ir
Dr. Somaye Jafar Ali Jasbi
Computer department group manager islamic azad university science and research branch
s.jassbi@srbiau.ac.ir
Dr. Ahmad khademzade
Deputy of Iran Telecommunication Research Center and member of the Scientific Council of Islamic Azad University, Science and Research Branch
a_khademzadeh@azad.ac.ir
Dr. Ehsan Aerabi
PhD student of Gronoble University of Technology and former faculty of Hamadan University of Technology
e_aerabi@comp.iust.ac.ir
Dr. Mir Hossin Dezfoulian
Computer department group manager Bu Ali sina university
dezfoulian@basu.ac.ir