

Mahdieh Aliazam

Curriculum Vitae

Room 120,
School of Computer Engineering,
Iran University of Science
and Technology (IUST),
Tehran, Iran. ☎ (0919) 562 6306
✉ mahdieh_aliizam77@comp.iust.ac.ir
DOB: Dec 04, 1998



Education

- 2023–Present **PhD of Computer Architecture**, Iran University of Science and Technology, Tehran, Iran, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah and Dr. Akbari.
- 2021–2023 **Masters of Computer Architecture**, Iran University of Science and Technology, Tehran, Iran, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah.
- 2016–2020 **Bachelor of Computer Software Engineering**, Shariaty Technical and Vocational University, Tehran, Iran.

Research Interests

1. **Cyber-Physical Systems.**
2. **Internet of things.**
3. **Embedded systems.**
4. **Fault-tolerant design.**
5. **Low-power design.**
6. **Machine Learning.**

Skills & Abilities

- Programming Languages VHDL, VERILOG, SYSTEMC, C/C++, PYTHON
- Tools ALTUM DESIGNER, VIVADO, CLOUDSIM, IFOG SIM, MODEL SIM, MATLAB & SIMULINK, HSPICE
- Software LATEX, ICDL
- Intermediate LINUX, MICROSOFT WINDOWS

Teaching

- 2023-Fall **Advanced Computer Architecture**, TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Pejman Lotfi-Kamran.
- 2023-Fall **Computer-Aided Design**, TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Hajar Falahati.
- 2023-Fall **Embedded and IoT Systems**, TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah.
- 2022-Spring **Storage System Design**, TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah.
- 2021-Fall **Fault-Tolerant System Design**, TEACHER ASSISTANT, Iran University of Science and Technology, Under Supervision of Dr. Amir Mahdi Hosseini Monazzah.

2019-Fall **Logic Circuit**, TEACHER ASSISTANT, Shariaty Technical and Vocational University, Under Supervision of Dr.Shekarriz.

2019-Fall **Computer Architecture**, *Teacher Assistant*, Shariaty Technical and Vocational University, Under Supervision of Dr.Zamanian.

Masters Thesis

Title *Optimizing Reliability and Energy Efficiency in Cyber-Physical Systems Sensor Devices for Healthcare Application*

Supervisors Dr. Amir Mahdi Hosseini Monazzah

Description We presents Collaborative Sensing as a solution using Neural Network algorithms to Optimize Reliability and Energy Efficiency in Cyber-Physical Systems.

Publications

M. Aliazam, A. Javadi, A.M.H. Monazzah, Investigating the Ways of Increasing Reliability and Accessibility in Fog-based Health Care Systems, the 28th International Conference of Computer Society, 2023, Iran

M. Aliazam, A.M.H. Monazzah, Collaborative Sensing: Optimizing Reliability and Energy Efficiency in Cyber-Physical Systems Sensor Devices for Healthcare Application, "To be Submitted"

Accomplished Projects

2024 **Developing Motor Driver Frame-ware.**
Metable Co.

2022-Present **PATRIIoT IoT Platform**, *Technical Test and Support Manager.*
Metable Co.

2021 **National Elite Foundation**, *Agricultural smart project based on Internet of Things.*

Languages

Farsi **Native Speaker**
English **Fluent**