Mahsa Tahghigh CONTACT



Shiraz, Iran

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ResearchGate

Website



EDUCATION

❖ Master of Science (M.Sc.), Electronic Engineering-Integrated Circuit Design Islamic Azad University of Shiraz, Shiraz, Iran. 2019-2021

GPA: 18.90/20 (4/4)

Thesis Topic: "Design of Bit Alignment Circuit in Pipeline Analog to Digital Converters by a Full

Adder Circuit".

Thesis Grade: 17.99/20

Supervisor: Dr. Nabiollah Shiri

Selected Courses

Linear Integrated Circuits (18/20)

Integrated Data Converters (19/20)

• Laser Electronic (19.50/20)

• Optoelectronics (20/20)

• Radio Frequency Integrated Circuits (19/20)

Nano Electronic (18/20)

❖ Bachelor of Science (B.Sc.) in Electrical and Power Engineering, Islamic Azad University of Shiraz, Shiraz, Iran. 2013-2017

GPA: 15.59/20 (3.09/4).

RESEARCH INTERESTS

- Digital Arithmetic Circuits
- Computer Architecture and Systems
- Digital System Design
- Embedded System
- Approximate Computing and Theory
- Image Processing
- Digital Signal Processing
- Low Power Design

HONORS AND AWARDS

- Ranked third among the Electrical Engineering students based on GPA at Islamic Azad
 University Of Shiraz, Iran
 2019-2021
- Awarded tuition fee waiver scholarship for being among top 5% Integrated Circuit Design class.

 2020-2021

PUBLICATION

❖ Peer-reviewed Journal

Ayoub Sadeghi, Nabiollah Shiri, Mahmood Rafiee, <u>Mahsa Tahghigh</u>, "An efficient counter-based Wallace-tree multiplier with hybrid full adder core for image blending", Frontiers of Information Technology & Electronic Engineering, June2022, <u>DOI: 10.</u> 163/FITEE.2100432

Under preparation for Peer-reviewed Journal

- Mahsa Tahghigh, Nabiollah Shiri, "A novel and high accuracy 3-bit structure of ripple carry adder circuit embedded in bit alignment in pipeline ADC by using of efficient full adder", Will be submitted in September 2022, Microelectronic Journal.
- ➤ <u>Mahsa Tahghigh</u>, Nabiollah Shiri, "High performance and low power Wallace tree multiplier using approximate full adder", Will be submitted in September 2022,

ACADEMIC EXPERIENCE

- ➤ **Teaching Assistant**: instructor of HSPICE tool for the courses related to integrated circuits. **2020-Current**
- **Research Assistant**: in **Bio-IC Lab**

2020-Current

Experienced in Coordination and Team Performance:

Main Responsibilities: Preparing the professors' presentations, Participation in teaching the discussed topics, Examples: 'Mass Spectroscopy' and 'Polarized light' for Optoelectronics course.

2020-Current

SKILLS AND QUALIFICATIONS

- ➤ Tools:
 - HSPICE (Professional)
 - MATLAB (Intermediate)
 - Cadence Virtuoso Layout Suite (Intermediate)
 - Advanced Design System (ADS)
 - Pspice (Intermediate)
 - Proteus Design Suite (Intermediate)
 - Visio (Professional)

LANGUAGE SKILLS

• TOEFL Internet based (IBT) 99.

REFERENCES

❖ **Dr. Nabiollah Shiri** (Assistant Professor), Department of Electrical and Electronic Engineering, Islamic Azad University of Shiraz, Iran.

Email: nabi.shiri@gmail.com

❖ **Dr. Rahim Ghayour** (Full Professor), Department of Electrical and Electronic Engineering, Islamic Azad University of Shiraz, Iran.

Email: rghayour@shirazu.ac.ir

❖ Dr. Zahra Karami (Assistant Professor) and head of Electrical and Electronic Engineering, Islamic Azad University of Shiraz, Iran.

Email: zahrakaramih63@gmail.com