

SUMMARY Bachelor student in Electrical Engineering (Digital Systems Design), passionate about embedded systems design and their security.

EDUCATION **Faculty of Engineering, University of Tehran, Tehran, Iran**
B.Sc. in Electrical Engineering(Digital Systems) **Sep. 2018 – present**

- Expected graduation date: June. 2023
- GPA till now: 16.87/20
- Advisor: Dr. Siamak Mohammadi(Associate Professor)

BSc. THESIS **Dependable Systems Design Lab** **Fall 2022 – present**
“Hardware Trojan Detection Using ML Methods”
Advisor: Dr. Siamak Mohammadi(Associate Professor)

RESEARCH INTERESTS

- Embedded System Design
- IoT Security
- FPGA Design
- Digital system testing
- Hardware Security
- Machine Learning
- Hardware Trojan

SELECTED COURSES

- Foundations of Information Technology *Grade: 18.1/20*
- Digital Systems 2 *Grade: 17.2/20*
- Core-based Embedded System Design *Grade: 20/20*
- Advanced Programming *Grade: 17.5/20*
- Numerical Computation *Grade: 20/20*
- Discrete Mathematics *Grade: 19.55/20*
- FPGA-Based Embedded System Design

PROJECTS

Implementation of the ARM processor
Programing Language: Verilog
Advisor: Dr. Saeed Safari(Associate Professor)

Implementation SPI communication protocol
Programing Language: Verilog
Advisor: Dr. Ahmad Shabani(Ph.D.)

Implementation UART communication protocol
Programing Language: Verilog
Advisor: Dr. Bijan Alizadeh(Associate Professor)

Gate-Level Simulator
Programing Language: C++
Advisor: Dr. Zainalabedin Navabi(Professor)

Implementation of a Ransomware
Programing Language: Python
Advisor: – (Open Source Project)

TEACHING ASSISTANTSHIP **FPGA-Based Embedded System Design** **Fall 2022**
Instructor: Dr. Bijan Alizadeh(Associate Professor)

Electronic System Level Design **Spring 2022**
Instructor: Dr. Bijan Alizadeh(Associate Professor)

Electrical Measurement

Spring 2022

Instructor: Dr. Amir Abbas Shayegani Akmal (Associate Professor)

HONORS AND AWARDS	Get the FOE award of University of Tehran (Ranked 2 nd by the end of first 2 semester)
MEMBERSHIPS	Volunteer member of the International Red Cross and Red Crescent Movement Volunteer Fireman (C2 level)
LANGUAGE SKILLS	Persian: Native English: Proficient (IELTS exam will have been taken by May 28, 2023)
SOFTWARE	Software Programming Languages: MATLAB, C++, Python Hardware Programming Languages: Verilog HDL, System Verilog HDL Simulation: Modelsim, Quartus, Simulink, HSPICE Tools: L-Edit, S-Edit OS: Linux, Microsoft Windows Applications: Microsoft Word, PowerPoint, Excel
REFERENCES	Will be available upon request