


Amirreza Hosseini

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[LinkedIn profile](#) 

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Education

- **Bachelor of Science** in Computer Engineering 2019-2023 (expected)
[Isfahan University of Technology](#) (IUT)
Undergraduate - Intelligence computer systems (tuition waved)
CGPA: 17.61 out of 20 (converted: 3.67/4) – last term GPA 4/4
Supervisor: [Dr. Amir Khorsandi](#)
- **High School Diploma** in Mathematics and Physics 2015-2018
Nokhbegan-e Tehran, Tehran, Iran

Awards and Honors

- Ranked within the top 2% among more than 150,000 participants in the annual Iranian University entrance exam for bachelor's degree in Mathematics and Physics (Konkour).
- Ranked within the top 5% among more than 140,000 participants in the annual Iranian University entrance exam for a bachelor's degree in Foreign Languages (Konkour).
- Ranked within the top 15% in the first year and 10% in the second year of study among all students in the [IUT ECE Department](#).
- Awarded an option to switch the major from Electrical Engineering to Computer Engineering based on excellent academic performance.

Selected Courses

- | | | |
|--|--------------------------|--------------------------------|
| ▪ Computer Architecture (20/20) | ▪ Data Structure (19/20) | ▪ Database & Lab (17/20) |
| ▪ Digital Systems Design & Lab (20/20) | ▪ Robotics & Lab (18/20) | ▪ Microprocessor & Lab (18/20) |
| ▪ Computer Network 1&2 & Lab(18/20) | ▪ A.P. & Lab (17/20) | ▪ Automata theory (17/20) |

Research Interests

- Software-defined networking
- Embedded Systems
- Federated Learning

Professional Experiences

- **Industrial Project**
Software Developer Summer 2022-present
[Azmoon Saz Mabna](#) - Part-time
Tehran, Tehran, Iran
Worked on implementing the website platform for automatic calibrations. For many variations of instruments in the laboratory for migration from a paper-work base to an online-based platform. Use ASP.NET Core for implementation with MVC architecture.
- **Teaching Assistant**
Isfahan University of Technology
 - Computer Architecture Winter 2023
[Dr. Amir Khorsandi](#)
 - Database Lab. Fall 2022 - present
[Dr. Alireza Basiri](#)
 - Advanced object-oriented programming with C# Spring 2022
[Dr. MohammadAli Khosravifard](#)
 - Digital Systems Design Spring 2021
[Dr. Nader Karimi](#)

- Fundamentals of programming with Python and C languages Fall & Spring 2019-2020
[Dr. MohammadAli Khosravifard](#) & [Dr. Jalal Zahabi](#) (x2 times)

Technical & Research Experiences

- **Course projects**
 - **Mano Basic computer simulator** (implemented in C# language) – A basic computer stimulator with all of it's necessary elements and registers is implemented in C# windows forms. – [GitHub code](#)
 - **Linux character device module simulation** – [GitHub code](#)
 - **Arduino Radar Project** – Arduino (UNO CH340) with an ultrasonic sensor and the servo motor with buzzers and RGB for detecting the distance of objects and giving feedback with serial monitor and UI. – [GitHub code](#)
 - **Smart Bumper** - A model of smart bumper with embedded system elements that modifies it height with the speed of accrossing vehicles

Language

- English (IELTS (Academic): To be earned on April 18th)
- Persian (Native)

Skills

Programming languages and Frameworks

- C/C++ (multi-process and multi-threads programming, Linux kernel module) - [Sololearn](#)
- Python (PyTorch, socket programming, Pandas, NumPy, Matplotlib, Robotics) - [LinkedIn Learning](#)
- C# (ADO .NET Core MVC, windows forms, IIS express, Message brokers (RabbitMQ)) - [Sololearn](#)
- SQL (Microsoft SQL Server, Postgresql, ADO .NET) - [Sololearn](#)
- HTML (Bootstrap 5) – CSS – Adobe XD
- Verilog - MATLAB - Assembly

Hardware systems

- ATmega 16/32, NodeMCU, STM32 (f7 & f4 & f1) , Arduino (Mega/UNO)
- Sensors (Servo Motors, Drivers,Ultrasonic, Gyroscope, RFID, etc.)

Computer skills

- Editors & IDEs (Visual Studio & VSCode, Pycharm & Clion, Code Vision, Arduino, Processing, STM32CubeMX , Keil)
- Proteus & ModelSim & ISE
- Git & GitHub - [Coursera Certification](#)
- Wireshark & mininet & Cisco Packet tracer & floodlight
- Symbolab & Wolfram alpha
- Virtual Machines & Emulators (Virtual Box and VMware, BlueStacks)
- O.S. (Windows, Ubuntu, Windows Server, Android, IOS)

Certificates

- Developing Your Emotional Intelligence - [LinkedIn Learning](#)
- Seeds for the future – [Huawei](#) – Physical certificate

References

- **Dr. Amir Khorsandi**
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- **Dr. MohammadAli Khosravifard**
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- **Aein Bahadori**
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