Amirreza Hosseini

Tehran, Tehran, Iran
+98 (938) 633-0730
hosseiniamirreza2001@gmail.com
LinkedIn profile
Personal Website: amiirhosseini.github.io

Education

- **Bachelor of Science** in Computer Engineering   2019-2023 (expected)
  Isfahan University of Technology (IUT)
  Undergraduate - Intelligence computer systems (tuition waved)
  GPA: 17.44 out of 20 (converted: 3.64/4)
  Supervisor: Dr. Amir Khorsandi

- **High School Diploma** in Mathematics and Physics   2015-2018
  Nokhbegan-e Tehran, Tehran, Iran
  GPA: 4/4

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

  - Database Lab.   Fall 2022
    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 & Emulator (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

References

- **Dr. Amir Khorsandi**
  Assistant professor
  Electrical and Computer Engineering Department, Isfahan University of Technology, Iran
  Website: https://khorsandi.iut.ac.ir/ -- Mail: khorsandi@iut.ac.ir

- **Dr. MohammadAli Khosravifard**
  Associate Professor
  Electrical and Computer Engineering Department, Isfahan University of Technology, Iran
  Website: https://khosravifard.iut.ac.ir/ -- Mail: khosravi@iut.ac.ir

- **Aein Bahadori**
  MSc Student of Control Systems Engineering
  University of Padova, Padova, Italy
  LinkedIn -- Mail: aein.bahadori@studenti.unipd.it