

Mohammad Mahmoodian

Curriculum vitae

WORK EXPERIENCES

MARCH 2020

Freelance

Software Development

Real-time people counting for video stream, with help of computer vision and deep learning. Smart implementation of object detection and object tracking.

AUGUST 2020

Freelance

Software and Hardware Development

Programming a nordic nRF52840 Soc to capture data from an OSRAM Opto Semiconductor (SFH7070). Developing an app in Android Studio to communicate with the nRF through the BLE and display the captured data.

SEPTEMBER 2019 – PRESENT

PAD Lab, UTSTPark, Tehran, Iran

Blockchain Development

Working on popular cryptocurrency source codes (i.e. Bitcoin, Ethereum, TON, Neo, etc.) at PAD (Processing and Analysis Data) lab under the supervision of Mahsan Co. in the UTSTPark (University of Tehran Science and Technology Park).

MARCH 2019 – SEPTEMBER 2019

Datis, Tehran, Iran

Hardware Development

Hardware programming for STM32 Arm Cortex MCUs and development of elevator drives at Datis Elevator.

FEBRUARY 2017 – PRESENT

MCS Lab in the University of Tehran

Software Development and Research Assistance

Working on Linux-based operating systems (e.g., OpenWrt) and installing them on Wi-Fi routers. Development of IP networking and DNS applications.

JANUARY 2018 – JANUARY 2019

Farineh Fanavar, Tehran, Iran

Software Development

Implementing IoT protocols (e.g., Zigbee) and working on smart grids using new interesting technology, blockchain, and smart contracts. Working with tools such as truffle and Geth (Go Ethereum) for test and simulate smart grids at Farineh Fanavar.

📍 Tehran, Iran
☎ +98 (938) 3172746
✉ mahmoodian@ut.ac.ir
in www.linkedin.com/in/mohammad-mahmoodian-397a508a
🐙 www.github.com/momae

PROJECTS

2020 **OpenCV**

Implementing a real-time people counter using OpenCV, SciPy, etc. in Python language programming.

2020 **Android Studio**

Developing an app in Android Studio in Java programming language to connect to a device through BLE and display received data.

2020 **Nordic nRF**

Working on Nordic nRF52840 SoC and programming the chip, in C programming language using Keil IDE.

2020 **NEO Cryptocurrency Source Code**

Editing NEO client source code in C# programming language.

2020 **TON Cryptocurrency Source Code**

Editing TON (Telegram Open Network) client source code and adding some features to it (e.g. writing data onto CassandraDB, Neo4jDB, LevelDB, etc.).

2019 **Geth**

Working on Go-Ethereum (official Go implementation of Ethereum protocol) and adding some features to it.

2019 **STM32 Discovery Kit**

Embedded devices programmer. MCU programming in Keil.

2018 **Smart Contracts**

Writing smart contracts using solidity and hyperledger sawtooth. using web3 Restful api in Python and JavaScript to connect to blockchain. Backend programming in solidity and frontend programming in JavaScript and Python.

2018 **Zigbee**

Implementing Zigbee protocol on XBee modules using Keil. C and C++ programming.

2017 **OpenWrt**

Installation of OpenWrt on routers.

EDUCATION

2017 – PRESENT	Electrical Engineering - Network Communications MASTER OF SCIENCE <i>University of Tehran</i> GPA: 18.8 Rank: 1
2013 – 2017	Electrical Engineering - Communications BACHELOR OF SCIENCE <i>University of Tehran.</i> GPA: 18.4 Rank: 8

POSITION Professor
School of Electrical and Computer Engineering
University of Tehran

SELECTED COURSES

Pattern Recognition ($\frac{19.2}{20}$)	Advanced Programming ($\frac{18}{20}$)
Data Networks ($\frac{20}{20}$)	Distributed Optimization ($\frac{19}{20}$)
Stochastic Processes ($\frac{19}{20}$)	Cellar Networks ($\frac{20}{20}$)

SOFTWARE AND HARDWARE SKILLS

GOOD LEVEL	Python, OpenCV, NumPy, SciPy, Scikit-learn, MNIST, SVM, Go, Solidity, C, C++, C#, Java, Android Studio, git, Cryptocurrency, Linux, Restful APIs, IP Networking, Matlab, Neo4j Database, LevelDB, Cassandra Database, MongoDB
INTERMEDIATE	Hyperledger, \LaTeX , LabVIEW, Keil, ModelSim, Quartus, Wireshark, shell, AVR, Verilog, HTML, JavaScript
BASIC LEVEL	Windows, Microsoft Word, PSpice, HSpice

COMMUNICATION SKILLS

PERSIAN	Native speaker
ENGLISH	Good

REFERENCES

	Dr. Behnam Bahrak
POSITION	Assistant Professor School of Electrical and Computer Engineering <i>University of Tehran</i>
	Dr. Vahid Shahmansouri
POSITION	Assistant Professor School of Electrical and Computer Engineering <i>University of Tehran</i>
	Dr. Masih Nilchian
POSITION	Chief Technology Officer MyPulses Co.
	Dr. Babak Nadjar Araabi