

# Mohammad Mahmoodian

## Curriculum vitae

### WORK EXPERIENCE

SEPTEMBER 2019 – PRESENT

PAD Lab in University of Tehran

#### *Software Development and Research Assistance*

Working on Ethereum client especially go implementation of it, known as Geth.

MARCH 2019 – SEPTEMBER 2019

Datis, Tehran, Iran

#### *Hardware Development*

Hardware programming on STM32 Discovery boards and development of elevator drives at Datis Elevator.

FEBRUARY 2017 – PRESENT

MCS Lab in 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 for test and simulate smart grids at Farineh Fanavar.

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### EDUCATION

2017 – PRESENT **Electrical Engineering - Network Communications**

MASTER OF SCIENCE

University of Tehran

GPA: 18.8

Rank: 1

2013 – 2017 **Electrical Engineering - Communications**

BACHELOR OF SCIENCE

University of Tehran.

GPA: 18.4

Rank: 8

### PROJECTS

- 2019 **Geth**  
*Editing 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.*

### SOFTWARE AND HARDWARE SKILLS

GOOD LEVEL	Python, Go, Solidity, C, C++, HTML, git, Cryptocurrency JavaScript, Linux, Restful APIs, IP Networking, Matlab
INTERMEDIATE	Hyperledger, <del>TeX</del> TeX, LabVIEW, Keil, ModelSim, Quartus, Wireshark, shell, AVR, Verilog
BASIC LEVEL	Windows, Microsoft Word, PSpice, HSpice