



## Mohammad Hatami Abbasi

Date of birth: 3 Dec 1993

 IRAN-Tehran

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### FIELD:

Electronic & Power Electronic

### INTRESTS:

Digital Electronic  
Power Electronic  
Computer programing

### LANGUAGES:

Persian  
English

### EDUCATION

#### Bachelor's degree:

Electrical-electronic engineer

Islamic azad university central Tehran branch(IAUCTB)

2012-2016

GPA:15.48/20

Thesis title:

Design and implementation of scientific calculator with AVR

Supervisor: prof. Saeed Farahi

#### Master's degree:

Power Electronic & electrical machines engineer

Islamic azad university south Tehran branch(IAUSTB)

2017-2019

GPA:17.8/20

Thesis title:

Modeling and simulation and implementation multi-level inverter with switching capacitor and multiple DC voltage source input.

Supervisor: prof. Karim Abbaszadeh

### PUBLICATIONS

A SINGLE PHASE BOOST SWITCHED-CAPACITOR MULTILEVEL INVERTER TOPOLOGY

DOI: [10.1109/PEDSTC.2019.8697563](https://doi.org/10.1109/PEDSTC.2019.8697563)

### SKILLS

- Design and implementation Power Electronic convertors
- Design and implementation digital and analogue electronic circuits
- Micro controller programing
  - AVR
  - ARM(stm32)
- FPGA programing(VHDL)
- PLC programing
- Computer programing
  - C
  - C++
  - Python
- Computer skills
  - Matlab
  - Hspice
  - Pspice
  - Proteus
  - Altium Designer

## WORK EXPERIENCE

- Electronic engineer(repairs and QC)  
Azmoon keyfiat co.//2015
- Design and implementation of current controller with AVR//2015
- Design and implementation of Digital and Analogue oscillator//2015
- Design and implementation of differential amplifier with variable gain//2015
- Design and implementation of temperature controller with ARM(stm32)//2016
- Design and implementation of distance meter with ARM(stm32)//2016
- Design and implementation of smart parking capacity controller with PLC LOGO//2016
- Design smart parking with ARM(stm32) & AVR //2016  
(receive data from sensors and transmit data to Server)
- Design and implementation of step motor controller with FPGA(Xilinx)//2017
- Design and implementation of step motor controller with ARM(stm32)&AVR//2017
- Design and implementation of inverter special SPWM with ARM(stm32)&AVR//2018
- Design and implementation of DC voltage power supply(7volts) with 6 outputs by ne555//2019

## TEACHING EXPERIENCE

- Digital electronic //2016
- C & C++ programing //2016
- AVR & ARM(stm32) programing //2017

## PROJECT UNDERWAY

- Implementation of a new nine-level inverter with switched-capacitor technique. //2018
- Implementation of a new step-up switched capacitor multilevel inverter self-voltage balancing. //2019
- Implementation of a new DC-DC Boost convertor with high gain and high efficiency. //2019