



ABBAS

MAHDAVI

Power Electronics Engineer

📅 Date of birth:

09 Apr 1993

🏠 Address:

Iran - Tehran

📞 Phone:

(+98)9127002521

@ E-mail:

abbasmahdavi72@gmail.com

st_a.mahdavi@azad.ac.ir

🔗 LinkedIn:

[https://www.linkedin.com/in/](https://www.linkedin.com/in/abbas-mahdavi-68804a107/)

[abbas-mahdavi-68804a107/](https://www.linkedin.com/in/abbas-mahdavi-68804a107/)

▼ Education

Bachelor's Degree:

He received the B.S. degree from the Department of Electrical Eng. Islamic Azad University, South Tehran Branch, Iran, in 2017.

GPA: 16.18/20

Master's Degree

He is currently studying for his M.S. degree at the Department of Electrical Eng. Islamic Azad University, South Tehran Branch, Iran.

Thesis Title:

Design and Implementation of A Single Phase Boost Switched-Capacitor Multi-level Inverter Topology

Supervisor:

Prof. K. Abbaszadeh

▼ Publication

Feb 2019.

Mahdavi, A., Abbaszadeh, K., & Abbasi, M. H. (2019, April). A Single Phase Boost Switched-Capacitor Multilevel Inverter Topology. In *2019 10th International Power Electronics, Drive Systems and Technologies Conference (PEDSTC)* (pp. 320-325). IEEE

▼ Language

Persian - native

English - intermediate

▼ Experience

Work Experience:

- **Aug 2015 - Mar 2016**

Trainee in Maham Electronics Iranian Co.

Teaching Experience:

- **May 2013 – Nov 2015**

High school guidance counselor

- **Apr 2016 - Jun 2016**

Tutor at the "Probability and Statistics" lesson.

- **Sep 2016 - Dec 2016**

Tutor the "Electronics 1" & "Electronics 2" lesson.

- **Feb 2018 - Jun 2018**

Teaching Assistant the "Industrial Electronics" course, Islamic Azad University,
South Tehran Branch

- **Dec 2018 - present**

Tutor the "Matlab/Simulink" software (Basic & Advanced)

- **Jan 2019 - present**

Adviser in the choice of the seminar topic and thesis title
"field: multilevel inverter"

▼ Projects Underway

- **Dec 2018 - present**

Implementation of A New Nine-Level Inverter With Switched-Capacitor Technique.

- **Mar 2019 - present**

Implementation of A New Step-Up Switched-Capacitor Multilevel Inverter With Self-Voltage Balancing.

- **May 2019 - present**

Implementation of A New DC-DC Boost Converter With High Gain and High Efficiency.

▼ Field of Interests

- **Embedded Systems**
- **Design, Simulation and Implementation of the Power Electronics Converters**
- **Research and Study on Renewable Energies, especially Solar Systems**

▼ Skills

- **Matlab/Simulink**
- **C programming language**
- **AVR**
- **ARM (ST's microcontrollers)**
- **Proteus**
- **Altium Designer**
- **MS Office (expert knowledge of the entire suite)**