

## CURRICULUM VITA



**Name:** TAHA AHMED HUSAIN

**Date of birth:** 6/8/1960

**Sex:** male

**Nationality:** Iraqi

**Language of education:** English

Email: [taha\\_hussian@yahoo.com](mailto:taha_hussian@yahoo.com)  
[taha.hussien@ntu.edu.iq](mailto:taha.hussien@ntu.edu.iq)

### **Qualification:**

*June 1982:* B.Sc. In electrical and electronic Engineering from the University of Technology Baghdad-Iraq.

*March 1989- October 1991:* Assistant lecturer at Mosul Technical Institute-Iraq.

*December 1993:* M.Sc. degree in electrical engineering from Mosul-University/Iraq

*Thesis title:* Digital computer simulation of cycloconverters.

*December 1993- June 1996:* Assistant lecturer at Mosul technical Institute - Iraq.

*June 1996 – July 2015:* Lecturer at Northern Technical University, Mosul Technical College, Iraq.

*July 2015- to August 2021 :* Assistant Professor at Northern Technical University, Mosul Technical College, Iraq.

*July 2021- to date :* Professor at Northern Technical University, Mosul Technical College, Iraq.

**Fields of Interest:** *Power Electronics, control, neural networks, optimization algorithms.*

### **Teaching experience:**

#### **➤ Subjects (theoretical and experimental )**

- Power Electronics.
- Digital Electronics and Microprocessors.
- Control

- Electrical Machines.
- Signal Processing.
- Mathematics and linear algebra.
- Electromagnetic.
- Electronics.
- Neural networks and optimization algorithms

## **Publishing Activities:**

### **➤ Papers**

1. Al-Nimma D. Ali and Hussein T.A “Digital computer simulation for dual converter systems”. *The Eleventh Iraqi scientific engineering conference, October 1993, Baghdad – Iraq.*
2. Al-Nimma D. Ali and Hussein T.A “Computer simulation of a D.C drive system”. *The sixth scientific conference for foundation of technical institutes, March 1998, Baghdad-Iraq.*
3. Hussein T.A. “Pspice analysis of thyristor phase controlled converters and cycloconverters”. *The scientific journal of Tikrit University, vol.5, No.4, pp 84-99, 1998, Tikrit-Iraq.*
4. Maan M.S, Hussein T.A and Their A.S “Design and implementation of industrial line to count and package drug tablets automatically”. *Al-Teqany journal vol.2, pp 200-213, Foundation of technical institutes, June 2005, Baghdad-Iraq.*
5. Taha Ahmad Hussein "Modeling and simulation of single-phase cycloconverters based on matrix converters and CPLD", 11<sup>th</sup> scientific conference, Technical college Baghdad, Foundation of technical education Iraq-April-2008.
6. Bashar S. Mohamad-Ali, Taha A. Hussein and Laith A. Mohammed " *Design and implementation of a CPLD-based multilevel inverter*", Vol.16 No.4 Dec. 2009 Tikrit University Iraq.
7. Taha Ahmad Hussein " *Voltage Spikes and Harmonic Reduction for*
8. Taha Ahmad Hussein “*Voltage Spikes and Harmonic Reduction for Inductive Load Single Phase Matrix Converter Using MATAB*”, The second international conference on computer and electrical engineering ICCEE 2009, Dubai-UAE, Volume 1, session 5, paper page 219-223.
9. Taha Ahmed Hussein “*Analysis of Brushless DC Motor with Trapezoidal Back EMF using Matlab*”, *Jordan Journal for Electrical Engineering JJE* Volume 1, Number 1, 2015 paper pages (13-24).
10. Taha A. Hussein, Laith A. Mohammed “*Detailed Simulink implementation for induction motor control based on space vector pulse width modulation SVPWM*”, *Indonesian journal of electrical engineering and computer science IJEECS*, Vol.22, No.3, June 2020.
11. Taha A. Hussein, Ibrahim I. Sheet, “*Implementation of selective harmonics elimination for single phase inverter using Arduino and Simulink*”, *Tikrit Journal of engineering science*, Vol.21, No.3, 2020
12. Laith A. Mohammed, Taha A. Hussein, Ahmed M. “*Implementation of SHE-PWM technique for single-phase inverter based on Arduino*”, *International journal of electrical and computer engineering IJECE*, Vol.11, No. 4, August 2021.
13. Taha A. Hussein, “*Multilevel single-phase inverter implementation for reduced harmonic contents*”, *International Journal of Power Electronics and Drive System (IJPEDS)*, Vol.12, No.1, March 2021.

14. Laith A. Mohammed, Taha A. Hussein, Salsabeel H. Taha “*The Effect of Zero Vector Location in SVPWM Fed by PV System*”, Design Engineering Journal, Vol. 2021: Issue 06.
15. T. A. Hussein, "V/F Control of Three Phase Induction Motor Driven by VSI Based on SVPWM," 2021 International Conference on Advance of Sustainable Engineering and its Application (ICASEA), 2021, pp. 49-53, doi: 10.1109/ICASEA53739.2021.9733068.
16. Rakan Khalil Antar, Taha Ahmed Hussein, Abdallah M. Abdullah “*Design and Implementation of Reduced Number of Switches for New Multilevel Inverter Topology without Zero-Level State*” International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 13, No. 1, March 2022, pp. 401~410 ISSN: 2088-8694, DOI: 10.11591/ijpeds.v13.i1.pp401-410