

Curriculum Vitae (CV)

Amr Hashim Mohammed Mohammed



Personal Information:

Academic Rank: Lecturer Assistant

Department: Mechanical Engineering branch of Mechatronics

Specialization: Branch of Mechatronics

Position: Lecturer Assistant

Google Scholar: -----

Research Gate: <https://www.researchgate.net/profile/Amr-Hashim>

ORCID Record: -----

Scopus ID: -----

Email amr.hashim@hti.edu.eg

Mobile/WhatsApp: +20/ 01012082574

Education:

Degree	Discipline	Institution	Year
M.Sc.	Mechanical Design And Production Engineering	Faculty Of Engineering, Cairo University	2019
B.Sc.	Mechanical Engineering branch of Mechatronics	Higher Technological Institute (HTI), Tenth Of Ramadan City	2015

Academic Experience:

Institution: Higher Technological Institute (HTI), Tenth of Ramadan City

Rank: Lecturer Assistant

Dates: 2019 to present

Institution: Higher Technological Institute (HTI), Tenth of Ramadan City

Rank: Demonstrator

Dates: 2015 to 2019

Research interests:

- Control of dynamic system
- Magnetic Bearing
- Energy Storage
- Vibration Analysis
- Piezoelectric Transducer

Publications:

- -K. I. Othman, A. A. Hassan, A. Hashim, and A. M. Emam. Synthesis and characterization of Ba_{0.85}Ca_{0.15} Zr_{0.1}Ti_{0.9}O₃ Lead-Free Piezoelectric Ceramic Materials, *Technology Reports of Kansai University* “ISSN: 04532198 Volume 62, Issue 11, December, 2020,” vol. 62, no. 11, pp. 6535–6546, 2020.
- A Lead-Free BCZT Piezoelectric Transducer for Ultrasonic Applications, Journal of Sensors and actuators B, IN PROGRESS.

Certifications or Professional Registrations:

- Judge in Intel Science & Engineering Fair (Intel ISEF) 2022,2023.
- Egyptian Engineering Day 2014 from period 10-11 September 2014
- Researcher Academy On Campus from Elsevier, 6 August 2019 at Higher Technological Institute, under the title: Promoting your research capabilities - The modern knowledge cycle.
- Cairo oil Refining Company (CORC), Industrial institution (2012).
- Energya power Cables ELSEWEDY HELAL, Industrial institution (2013).
- Microcontroller Course at JELECOM EGYPT Company, Industrial institution (2013).
- Belayim Petroleum Company, Industrial institution (2014).
- PLC Course at JELECOM EGYPT Company, Industrial institution (2014).
- VOLKSWAGEN Company, Industrial institution (2015).
- Solidworks Course at JELECOM EGYPT Company , Industrial institution (2015).
- Hydraulic Course at JELECOM EGYPT Company, Industrial institution (2015).
- Arduino and Rasberry PI2 Course at Micropedia Company, Industrial institution (2016).
- Powder Metallurgy Course at Central Metallurgical Research & Development Institute, Academic institution (2017).
- Effective teaching and learning strategies for colleges and institutes of higher education at National Authority for Education Quality Assurance and Accreditation (2021).

Honors and Awards:

- Best Design award ABU ROBOCON, Egypt Team Supervisor, Vietnam, 2018.
- Ranked 1st out of Undergraduate in Higher Technological Institute (HTI),2015.

Teaching Experience:

Courses taught

- Automatic Control
- Modeling and Simulation
- Design of smart mechatronics system
- Mechatronics workshop
- Finite element analysis
- ABAQUS (Finite Element Package)
- Mechanical Vibration Analysis
- Sensor and Actuators
- Dynamic system analyses.
- Design of Hydraulic circuit by FESTO Programming Software.
- ABAQUS finite element Package tool.
- SOLIDWORKS computer-aided design tool.
- CNC programming language (G&M) Code.
- Design of PCB by Proteus &EAGLE Software.
- PLC programming language.
- C programming language.
- C++ programming language.
- Arduino c programming language.
- MATLAB
- Electronic LAB.
- PLC and Actuator LAB.