Hussein Naser

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WORK EXPERIENCE

University research assistant

Carleton University [01/01/2023 – Current]

City: Ottawa, ON | **Country:** Canada

- Conducting research in assistive drones and cooperative aerial transportation.

University teaching assistant

Carleton University [01/01/2023 – Current]

City: Ottawa, ON | **Country:** Canada

- Teaching undergraduate courses.
- Supervising lab work.

Manager of Training and Technical Support Unit

Quality Assurance Department/ University of Thi-Qar [28/01/2019 – 26/12/2022]

City: Thi-Qar | **Country:** Iraq

- Gave technical support for the staff of the university.
- Participated in the annual assessment process of the faculty members and administrative staff.
- Managed data collecting process for the university national and international ranking.
- Managed correspondence with international ranking institutions.

Lecturer

College of Engineering/ Biomedical Engineering Dept./ University of Thi-Qar [13/09/2018 – 26/12/2022]

City: Thi-Qar | **Country:** Iraq

Entrepreneurship coach

UNITAR Hiroshima [2020 – 2021]

City: Hiroshima | **Country:** Japan

- Managed online international training and discussion sessions.
- Assessed Iraqi and international trainees progress and assignments.
- Advised and directed the trainees to achieve their tasks and goals.

Assistant lecturer

AL-Khwarizmi College of Engineering / University of Baghdad [30/09/2015 – 12/09/2018]

City: Baghdad | **Country:** Iraq

- Taught undergraduate courses.
- Advised graduation projects for senior undergraduate students.
- Participated in many committees as a faculty member.

Mechatronics engineer

AL-Khwarizmi College of Engineering / University of Baghdad [25/01/2009 – 19/08/2012]

City: Baghdad | **Country:** Iraq

- Managed some labs such as microprocessor lab, electric an electronic circuits lab, and sensors lab.
- Helped and directed students to do lab experiments.
- Worked as a technician to maintain the instruments and equipment of the labs.
- Participated in many committees to provide equipment to the college.

EDUCATION AND TRAINING

PhD Candidate in Mechanical and Aerospace Engineering

Carleton University [01/01/2023 – Current]

City: Ottawa | **Country:** Canada

Master of Sciences in Mechanical Engineering

College of Engineering, Michigan State University [28/08/2013 – 20/08/2015]

City: Lansing | **Country:** United States

Certificate in English as Second Language

ESL, Michigan State University [29/08/2012 – 09/08/2013]

City: Lansing | **Country:** United States

Bachelor of Sciences in Mechatronics Engineering

AL-Khwarizmi College of Engineering / University of Baghdad [15/11/2003 – 15/07/2008]

City: Baghdad | **Country:** Iraq

Machine Learning

Coursera [10/06/2020 – 20/09/2020]

Website: coursera.org

UNITAR Hiroshima Empowering Social Entrepreneurs and Youth Leaders for Iraq

UNITAR Hiroshima [20/09/2019 – 14/02/2020]

City: Hiroshima | **Country:** Japan

Certificate in Tech Entrepreneurship

Five One Labs [07/07/2019 – 01/08/2019]

City: Sulaimani | **Country:** Iraq

Android Developer Track

Udacity, 1 Million Arab Coders Initiative [01/11/2018 – 30/11/2018]

City: Online | **Country:** United Arab Emirates

Data Analyst Track

Udacity, 1 Million Arab Coders Initiative [01/08/2018 – 31/08/2018]

City: Online | **Country:** United Arab Emirates

Educational Qualification Course

Development and Continuing Education Center, University of Baghdad [04/04/2016 – 21/04/2016]

City: Baghdad | **Country:** Iraq

Computers & Printers Maintenance

Computer Center, University of Baghdad [31/10/2010 – 23/11/2010]

City: Baghdad | **Country:** Iraq

Automation Robotics Training System 5150 & Pneumatic I Training System 6081

Pyramid of Knowledge Co, Lab-Volt Company Agent [01/10/2010 – 18/10/2010]

City: Baghdad | **Country:** Iraq

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s): English (fluent)

PUBLICATIONS

Publications

- **J** [1]- **Hussein N. Naser**, Hashim A Hashim, Mojtaba Ahmadi, Aerial assistive payload transportation using quadrotor UAVs with nonsingular fast terminal SMC for human physical interaction, Results in Engineering, 2025.
- **J** [2]- **Hussein N. Naser**, and H. A. Hashim, sEMG-based hand gestures classification using a semi-supervised multi-layer neural networks with Autoencoder, Systems and Soft Computing, 2024.
- **J** [3]- Asaad Migot, **Hussein NH Naser**, Adnan A Ugla, Victor Giurgiutiu, Investigations of fatigue crack detection using local vibration techniques: Numerical and experimental studies, Journal of Nondestructive Evaluation, 2023.
- **J** [4]- **Hussein Naeem Hasan Naser**, "Kreen" an Electronic Platform for Towing Service as an Alternative Solution for Writing on Walls Phenomenon in Iraq, International Journal of Computing and Digital Systems, 2022.
- **J** [5]- **Hussein Naeem Hasan**, A Cost Effective Deaf-Mute Electronic Assistant System Using Myo Armband and Smartphone, International Journal of Science and Research (IJSR), 2017.
- **C** [1]- **Hussein N. Naser**, Hashim A Hashim, Mojtaba Ahmadi, Human Physical Interaction based on UAV Cooperative Payload Transportation System using Adaptive Backstepping and FNTSMC, 2025 IEEE American Control Conference (ACC), July 8-10, 2025, Denver, CO, USA.
- **C** [2]- **Hussein N. Naser**, Husam Hammood, Asaad Q Migot, Internet-Based Smartphone System for After-Stroke Hand Rehabilitation, 2023 International Conference on Engineering, Science and Advanced Technology (ICESAT), Mosul, Iraq.
- **C** [3]- **Hussein Naeem Hasan**, A Wearable Rehabilitation System to Assist Partially Hand Paralyzed Patients in Repetitive Exercises*, Journal of Physics: Conference Series, Volume 1279, First International Scientific Conference Al-Ayen University 30–31 March 2019, Thi-Qar, Iraq.

Research Interests

1- Adaptive and robust nonlinear control.
2- Assistive aerial cooperative payload transportation.
3- Human-UAVs physical interaction.
4- Forces and torques estimation for human-robot interaction.
5- Human guidance, navigation, and control.

NETWORKS AND MEMBERSHIPS

Memberships

Member of Iraqi Engineers Union (2009 – until now).

CONFERENCES AND SEMINARS

Conferences Attending

1. The 1st International Conference on Advances in Engineering Science and Technology (AEST-2021), 26-27 April 2021, Babylon, Iraq
2. 1st International Scientific Conference of Al-Ayen University, Nasiriyah, Thi-Qar, Iraq, March, 2019.
3. The First International Conference on Modern Trend in Applied Sciences. 19-21 November 2017, Langkawi island, Malaysia.
4. 7th and the 1st international scientific engineering conference. May, 2017, University of Baghdad, Iraq.
5. Postgraduate studies conference. December, 2017, College of Engineering, University of Baghdad, Iraq.

Seminars

1. 3D printing technology and its applications/ AL-Khwarizmi College of Engineering (2018).
2. The symposium on the launch of Baghdad smart city project. Mayoralty of Baghdad (2018).
3. Myo gestures control armband and its applications/ AL-Khwarizmi College of Engineering/ Mechatronics Dept. (2018).
4. Robotic Fish as a mechatronic application/ AL-Khwarizmi College of Engineering (2017).

HONOURS AND AWARDS

Honours and awards

1- Innovation shield award for graduation project supervision from Mechatronics Engineering Department/ University of Baghdad (2018).
2- Certificates of recognition, president of University of Baghdad (2018) and president of University of Thi-Qar (2019, 2020, 2021).
3- Scholarship to complete master degree HCED office of the Iraqi prime minister (2012).
4- Graduate Project Competition Prize, Ministry of Higher Education and Scientific Research, Iraq (2009).
5- Iraqi Excelled Student Reward (Waedoun) Iraqi Vice President, Iraq (2008).

TEACHING

Teaching

1- Analog Electronics.

2- Control Systems Design.

3- Artificial Neural Networks fundamentals.

4- Fuzzy Logic fundamentals.

5- Engineering Drawing Software (SolidWorks).

6- AC Electric Machines fundamentals.

7- DC Electric Machines fundamentals.

PROFESSIONAL ACTIVITIES

Journal Reviewer

- • Journal of Intelligent & Robotic Systems\ Netherlands.
- • Intelligent Service Robotics \ Germany.
- • Journal of Circuits, Systems, and Computers (JCSC) \ Singapore.

[26/03/2020 – 20/04/2020]
Fully Automatic Sterilization Tunnel

Design and implement a Fully Automatic Sterilization Tunnel for the University of Thi-Qar and Thi-Qar Health Directorate in help of combating of COVID-19.

[2015 – 2016]
Autonomous Robotic Fish-human Interaction System

Design and implement an Autonomous Robotic Fish-human Interaction System for the Michigan State University Museum Exhibit

PROJECTS ADVISING

Projects Advising

- • - Undergraduate advisees
    - a. Fatimah Ahmed, Hijran Munaf, Mohammed sulaiman. Project: Follow me robotic platform. University of Thi-Qar.
    - b. Shahad Ali, September. Project: Conversion of gestures and movements of deaf-mute people to audible speech using myo armband and smartphone. University of Baghdad.
    - c. Reem Hyder, September. Project: Design and implementation of a 3D printed mobile Robot. University of Baghdad.
    - d. Hussein Rashid, September. Project: Design an android Application to control a mobile Robot. University of Baghdad.

TECHNICAL SKILLS

Technical Skills

1- ROS, ArduPilot, and Gazebo.

2- Android Development (Android Studio).

3- Embedded Systems.

4- Programming: Good experience in Matlab, Python, C, C++, Java, PHP, Mysql Database.

5- Microcontrollers: Arduino and Atmel as well as Wireless Communication Modules (Xbee & Bluetooth).

6- Computer: MS Office, LaTeX, Computers Maintenance.

7- Bio-sensors and Myo Gesture Control Armband from Thalmic Labs.

8- PCB Design (Eagle).

9- 3D printing and CAD Modelling (SolidWorks).

MEDIA COVERAGE

Unitar news stories (Developing Entrepreneurship Skills in Iraq, Hussein Naeem Hasan Naser), 2020

Link: https://unitar.org/about/news-stories/stories/hussein-naeem-hasan-naser-0

"MSU Night at the Museums makes splash with robotic fish," Lansing State Journal, by R. Wolcott, 2016

Link: https://www.lansingstatejournal.com/story/news/local/2016/04/14/msu-museums-open-doors-science-festival/82936252/