Curriculum Vitae

PERSONAL INFORMATION   Marwa Mawfaq Mohamedsheet Al-Hatab

📍 Ninawa, Iraq

📱 +964 770 9169090

✉️ marwaalhatab@gmail.com
    marwa.alhatab@ntu.edu.iq

Sex: Female

Date of birth: 26/01/1985

Nationality: Iraqi

WORK EXPERIENCE

Ministry Higher Education of Iraq,
Northern Technical University,
Engineering Technical College,
Mosul, Iraq

EDUCATION AND TRAINING

1. Embarked on a journey in the realm of Medical Instrumentation Engineering, earning my Bachelor's Degree at the Northern Technical University/Technical College Engineering in Mosul from 2002 to 2006.

2. Cultivated my passion for Biomedical Engineering, harnessing the power of knowledge and innovation during my Master's Degree pursuit at the University Polytechnic dell Marche in Italy's enchanting city of Ancona. The wings of opportunity unfurled thanks to a scholarship from UNIVPM, spanning from 2018 to 2020.

3. Transitioned seamlessly into academia, donning the mantle of a faculty member. My domain of expertise revolved around guiding master's degree students through the intricacies of hands-on courses, where we delved into the practical applications of image processing, signal processing, and advanced medical device technologies. spanned the years 2021 to 2023 (until now).

4. Became a pivotal member of the Scientific Committee, working tirelessly to shape and enrich the Bologna system curriculum for the illustrious Medical Devices Engineering Department in the academic year 2022-2023.

5. Actively contributing to the ICESAT 2023 conference. I lent my expertise as a member of the scientific committee and actively participated in international workshops held in June 2023.

6. Also work as reviewr with numerous esteemed international journals like the Journal of Electrical and Computer Engineering (Hindawi) benefiting from my role as a scientific evaluator. I also shared my insights at scientific conferences, including the International Conference on Human-Centric Smart Computing in the years 2022 and 2023.

7. An unwavering commitment to Northern Technical University has been my calling since my graduation in 2006. My duties encompassed training students in cutting-edge laboratories, nurturing young minds through effective teaching, and overseeing a multitude of projects for fourth-year students in the Department of Medical Instrumentation Engineering.

8. My horizons expanded as I immersed myself in the realms of cardiac research, muscle signal analysis, and the enigmatic world of brain imaging. This transformative experience unfolded during my sojourn at Polytechnic dell Marche University from 2018 to 2020.

9. Participation work in research laboratories with enrolment in master's courses,

10. Graced with a Certificate of Attendance, I delved into a training course meticulously supervised by UNIVPM at the Al-Dabbagh Centre for Medical Imaging. This educational odyssey was supported by a scholarship from UNIVPM and spanned from 2020 to 2021.

11. The quest for knowledge knows no bounds, as evidenced by my participation in a training workshop centered on information technology at Nineveh University.

12. Certificate of Attendance for my involvement in the Third International Scientific Conference for Humanities and Social Sciences.

13. My commitment to enhancing research skills and discreet publication of teaching staff and graduate students in Iraqi universities led me to earn a Certificate of Participation in the third training course. This enlightening experience was orchestrated by the Scientific Supervision and Evaluation Authority in coordination with the Ministerial Team for E-Learning.

14. Immersed myself in the intellectual exchange at the 14th Scientific Conference hosted by the University College of Heritage.

15. Several certificates from training courses at the Engineering Technical College in Mosul. These courses covered diverse fields such as Machine Learning, Image Processing, Signal Processing, and the enigmatic Internet of Things (IoT).

16. Work with research team at the Engineering Technical College, Mosul. Together, we embarked on a journey of exploration and discovery, resulting in published papers and ongoing research endeavours that continue.

PERSONAL SKILLS

Mother tongue(s)   Arabic

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English Very good	Very good	Very good	Very good	Very good
Level: B2				

Computer skills   Mat lab, Microsoft office, Graphic design, AI, SPM TOOLS, GIFT TOOLS.

Hobbies and interests
- Sports such as: walking.
- love teaching and have practiced training and academic teaching since I graduated
- Searching on Internet about interesting subject.
- Loving travel in General.
- Reading – Drawing
- Cooking

ADDITIONAL INFORMATION DEEPLY IN THE CAPTIVATING WORLD OF MEDICAL IMAGE PROCESSING, I'VE FERVENTLY PURSUED THE CONVERGENCE OF MODERN TECHNOLOGY AND ARTIFICIAL INTELLIGENCE.
 I METICULOUSLY CRAFTED MY EXPERTISE. I ORCHESTRATED THE CREATION OF PIONEERING NEURAL NETWORKS OF DEEP LEARNING TECHNOLOGY. THESE NEURAL NETWORK EXPLOYED
 TO CLASSIFYING FMRI BRAIN IMAGES ACROSS A SPECTRUM OF TASKS. THE OUTCOME OF THESE ENDEAVORS RESEARCH PAPERS COMUNICATE BETWEEN AI AND BRAIN ACTIVITIES.

FOR A MORE COMPREHENSIVE EXPLORATION I INVITE YOU TO MY PROFILES ON RESEARCHGATE (**HTTPS://WWW.RESEARCHGATE.NET/PROFILE/MARWA-AL-HATAB**) AND GOOGLE SCHOLAR (**HTTPS://SCHOLAR.GOOGLE.COM/CITATIONS?USER=LRC4EJKAAAAJ&HL=AR**).

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Publications:

1. M. M.Sheet AL-Hatab, R. R. O. Al-Nima, I. Marcantoni, C. Porcaro, and L. Burattini, "Classifying Various Brain Activities by Exploiting Deep Learning Techniques and Genetic Algorithm Fusion Method", Accepted for TEST Engineering & Management, 2020.

2. M. M.Sheet AL-Hatab, R. R. O. Al-Nima, I. Marcantoni, C. Porcaro, and L. Burattini, "Comparison Study between Three Axis Views of Vision, Motor and Pre-frontal Brain Activities", Accepted for Journal of Critical Reviews, 2020.

3. Al-Hatab, Marwa Mawfaq Mohamedsheet, et al. "Innovative Non-Invasive Blood Sugar Level Monitoring for Diabetes Using UWB Sensor." Journal of Optoelectronics Laser 41.4 (2022): 422-437

4. Al-Hatab, Marwa Mawfaq Mohamedsheet, Raid Rafi Omar Al-Nima, and Maysaloon Abed Qasim. "Classifying healthy and infected Covid-19 cases by employing CT scan images." *Bulletin of Electrical Engineering and Informatics* 11.6 (2022): 3279-3287.

5. Al-Hatab, Marwa Mawfaq Mohamedsheet, and Mohammad Zaid Shuaib AlNima. "Hematological Classification of White Blood Cells by Exploiting Digital Microscopic Images." *Eurasian Research Bulletin* 18 (2023): 44-52.

6. Fathel, Wameedh Raad, Marwa Mawfaq Mohamedsheet Al-Hatab, and Maysaloon Abed Qasim. "Classification ECG Signals Base on kNearest Neighbors (k-NN) Algorithm." *Eurasian Journal of Engineering and Technology* 16 (2023): 41-46.

7. Fathel, W. R., Al-Obaidi, A. S. I., Qasim, M. A., & Al-Hatab, M. M. M. (2023). Skin Cancer Detection Using K-Means Clustering-Based Color Segmentation. *Texas Journal of Engineering and Technology, 18,* 46-52.

8. Fathel, Wameedh Raad, Marwa Mawfaq Mohamedsheet Al-Hatab, and Maysaloon Abed Qasim. "Classification ECG Signals Base on kNearest Neighbors (k-NN) Algorithm." *Eurasian Journal of Engineering and Technology* 16 (2023): 41-46.

9. Al-Hatab, Marwa Mawfaq Mohamedsheet, et al. "Healthcare Monitoring COVID-19 Patients Based on IoT System.", revistabionatura.,2023.

10. Abd Al-Jabbar, Entisar Y., et al. "Clinical Fusion for Real-Time Complex QRS Pattern Detection in Wearable ECG Using the Pan-Tompkins Algorithm." *Fusion: Practice and Applications* 12.2 (2023): 172-72.

11. Al-Nima, Raid Rafi Omar, Marwa Mawfaq Mohamedsheet Al-Hatab, and Maysaloon Abed Qasim. "An Artificial Intelligence Approach for Verifying Persons by Employing the Deoxyribonucleic Acid (DNA) Nucleotides." *Journal of Electrical and Computer Engineering* 2023 (2023).

12. **Scientific studies to serve the community**: Designing a plant disease detection and diagnosis system using artificial intelligence(2022)

13. **Scientific studies to serve the community**:   A system for detecting and diagnosing stored grain insects using neural networks

Curriculum Vitae

Dr. Mohammed S Jarjees	*Technical Engineering Collage, Northern Technical University (NTU), Mosul, Iraq*	Head Department of Medical Instrumentations Engineering	**Mohammed.s.jarjees@ntu.edu.iq**
Dr. Maysaloon Abed Qasim	*Technical Engineering Collage, Northern Technical University (NTU), Mosul, Iraq*	Researcher &Lecturer	maysloon.alhashim@ntu.edu.iq
Dr. Raid Rafi Omar Al-Nima	*Technical Engineering College / Northern Technical University / Iraq*	Associate Professor	raidrafi3@ntu.edu.iq
Dr. Marcantoni Ilaria	*Department of Information Engineering, Università Politecnica delle Marche, Ancona, Italy*	Researcher &Lecturer	i.marcantoni@pm.univpm.it

Marwa M. M.sheet: