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Name : Auda Raheemah Odhaib

Email address: auda@mu.edu.iq

Nationality: Iraqi

Data of birth: 1/7/ 1970

Sex: Male

Marital State: Married

PERSONAL STATEMENT:

Auda Raheemah Odhaib is an Electrical and Electronic engineer with more than 10 years working experience with the Ministry of Military Industries in Iraq and more than 7 years working experience with the construction and housing ministry. I received my B.Sc..Eng. degree in 1993 from the University Technology , Baghdad, Iraq, in Electrical and Electronic Engineering and Master degree from the same university in 2002 in computer Engineering. I finished my PhD in computer engineering in University Malaysia Perlis, Malaysia. my main interests are Wireless networks, Wireless sensor networks, Embedded Systems , FPGA and ciphering systems.

Academic degree: Lecture- Doctor (Computer engineering)

Qualification Degree:

- ✓ B. Sc. Degree in Electrical and electronic engineering -1993.
- ✓ Master Degree in computer engineering (**DESIGN AND IMPLEMENTATION OF A SECURE DATA TERMINAL EQUIPEMENT (DTE))** from Technology University- Iraq-2002.
- ✓ doctor in Computer Engineering from University Malaysia Perlis (UniMAP), 2017, my Ph.D. was focused on inventing a new model for the distribution of wireless sensor networks based on ZigBee protocol for Protected Vegetation Environment, with the title (**A NEW WIRELESS SENSOR NETWORK WAVE PROPAGATION MODEL-BASED ZIGBEE PROTOCOL FOR MANGO GREENHOUSE ENVIRONMENT)**

Academic Experience

2008 - Current: Lecturer and Researcher Al-Muthanna University, Al-Muthanna Province, Iraq

Courses taught:

1. Computer Logic Design, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
2. Computer networks, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
3. Pascal Language Programming, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
4. C++- Language programming, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
5. Computer Architecture, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
6. Artificial Intelligent, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
7. Introduction to Computer Science, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
8. Data Structures, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
9. Data Base, Department of Mathematics and Computer Applications, College Of Science, Al-Muthanna University.
10. Digital Electronic, Department of Electronic and communications, College Of Engineering, Al-Muthanna University.
11. Computer programming, Department of Electronic and communications, College Of Engineering, Al-Muthanna University.

EMPLOYMENT HISTORY

I have joined the Iraqi Engineer union on 1993.

- ✓ 1993-2002:- start working in the Al -Salam Company which is carries out many projects with ministry of communications. These Projects related to design and implementation of control systems.□
- ✓ 2000- 2002:- Start study the master degree finished in 2002, which is focused to design and implement the of a secure data terminal equipment.
- ✓ 2003-2008:- start working in the Construction and Housing Ministry.
- ✓ 2014-2017: I received a scholarship which was sponsored by the Iraqi government to complete my PhD study at the Malaysia.

- ✓ 2008-2024 :- I had work in the Ministry of Higher Education in al Muthanna university.
- ✓ 2016-2024:- I have published many research papers in Scopus journals related to studying the plant environment in greenhouses and finding the best ways to distribute and disseminate the wireless sensors. Research papers have also been published in data encryption and data acquisition systems.

Experience and works

- 2008-2022: I had work in Muthana University as lecture.
- In 2008: I started working at Al-Muthanna University/College of Science as a lecturer.
- In 2009, I became the head of the Department of Mathematics and Computer Applications in the College of Science until 2013.
- In 2014, I received a scholarship to complete my doctoral study in computer engineering at University Malaysia Perlis, until 2017.
- In 2018, I became the Head of the Software Engineering Department at the Computer Center / University of Al-Muthanna until the year 2020.
- n the year 2020, I became the head of the Department of Electronics and Communications Engineering

Skills & Abilities:

- Programming Language:
    - Low level languages: assembly languages 8085, 8086.
    - High level language: Pascal, C ++, VHDl.

• Office: Microsoft office: (word, power points, Excel, Access)

- Operating systems: Windows

Languages:

- ✓ Arabic.
- ✓ English.

STATEMENT OF TEACHING

I like to have an interactive classroom, whether that interaction is between me and the students, or between the students themselves. I believe that lecturing should not be a one-way communication system. It should be more of a dialogue between instructor and student. I think it is important that the students are constantly a part of the process of their own learning; they need to be thinking, they need to be talking about what they are thinking. That is why I try to make my classroom an environment where all the students feel safe to venture a response, or make a comment, or ask a question, no matter how stupid or trivial or wrong it sounds to me or any of the other students. While I lecture I am constantly posing questions to the students, and the intention is that they respond to those questions, or at the very least think deeply about them. I believe that the key to being a good teacher of Electrical Engineering is to get the students involved in their own education, and get them excited about it. Here is one way I get the students involved in class. Before I present a key idea or theorem, I like to give the students the background for it, and then see if they can come up with the right idea on their own. If they come up with the right idea, great! If they instead come up with the wrong idea, then that is actually better than if they had come up with the right idea, because then we get to explore their response and see what is not quite right about it, and that leads us to what the right idea should be I use it to assign homework (which the students do online). I am excited at the possibility of leading undergraduate students in research. I love the subject area of mathematical logic, and there are many projects that are accessible to undergraduates in a range of majors from Electronic and communications engineering.

I am excited to teach computer engineering Subjects that I can enjoy teaching things I have never taught before because it gives me the opportunity to fully appreciate the material from that course, and I am enthusiastic about that, and the students can see that enthusiasm, and enthusiasm tends to be contagious. I also don't mind teaching the same thing multiple times, because it gives me the opportunity to change my teaching style and methods to see what really works. Working as an Award Leader, I am experienced in liaising with colleagues to help students with a variety of problems such as:

1. Responsible for the daily administration of the program with faculty, this includes the quality assurance procedures, and Program Monitoring

procedures as per the module specifications and module descriptors, and program management documentations.

2. Ensures the correct implementation of the decisions of the Assessment and the program.

3. Takes responsibility for student welfare and for monitoring responses on the program.

4. Produces, if necessary, written reports on any aspect of the programs, for the deanships consideration.

5. Provides the module Assessment Board and the Award Board with marks and other reports for the Boards' consideration.

6. Develops and integrates various materials into the program, with reference to program aims, coordinating these efforts with other members of staff organizing the Site Program Committee.

7. Provides a program for student counseling within the faculty.

PUBLICATIONS AND OUTPUTS

1. Auda Raheemah, Naseer Sabri, M. Salim, Phak Len Eh Kan, R. Badlishah Ahmad, "New Empirical Wireless Sensor Network Path Loss Modeling in Mango Greenhouse", Computers and Electonics in Agriculture, ISSN: 1819-6608, Vol. 127, No. 18, pp. 553- 560, September, 2016, Indexed by (IF = 1.892).

2. Auda Raheemah, Naseer Sabri, Phak Len Eh Kan, M. Salim and Omar Khaldoon, " Natural Grass Path Loss Modeling Based on Wireless Sensor Network" , Journal of Theoretical and Applied Information Technology, ISSN: 1992-8645, Vol. 78, No. 3, pp. 406 - 414, 31st August 2015, Indexed by (SCOPUS).

3. Auda Raheemah, Naseer Sabri, Phak Len Eh Kan and M. Salim , "Expermental Calculation of RSSI For Jennic Wireless Sensor Network Platform" , ARPN Journal of Engineering and Applied Sciences, ISSN: 1819-6608, Vol. 10, No. 18, pp. 8043-8047, October 2015, Indexed by (SCOPUS).

4. Auda Raheemah, Naseer Sabri, Phak Len Eh Kan, M. Salim, R. Kamaruddin, R. Badlishah Ahmad, M.N. Jaffer, S.A.Aljunid and M.H. Chmat , " Influences of Parts of Tree on Propagation Path Losses for WSN Deployment in Greenhouse Environments" , Journal of Theoretical and Applied Information Technology, ISSN: 1992-8645, Vol. 81, No. 3, pp. 552-557, 30 November 2015, Indexed by (SCOPUS).

5. Auda Raheemah, Naseer Sabri, M. Salim, Phak Len Eh Kan, R. Badlishah Ahmad, R. Kamaruddin and S.A.Aljunid, "Analysis Study of vegetation Models Based WSN in Greenhouse Environment" , International Advancements in Computing Technology, ISSN: 2005-8039, Vol. 7, No. 6, pp. 58-68, November 2015, Indexed by (SCOPUS).

6. Sabri, N., Sarah Fouad, Fahad Taha AL-Dhief, and Auda Raheemah. "Investigation of Empirical Wave Propagation Models in Precision Agriculture." In MATEC Web of Conferences, vol. 150, p. 06020. EDP Sciences, 2018.

7. Moneer Ali Lilo, Auda Raheemah Odhaib, Abdelkrim K. Ilijanb, " Integrated Wireless Technologies with Computer for Industrial Machinery Fault Diagnosis: Challenges Comparison and Characteristics: A Review"in Muthanna Journal of Pure Sciences – MJPS , vol.(5), No.(1), 2018, Indexed by (SCOPUS).

8. Auda Raheemah. "Using audio noise for generating random key stream." In IOP Conference Series: Materials Science and Engineering, vol. 1090, no. 1, p. 012136. IOP Publishing, 2021.

9. Auda Raheemah. " Indoor Air Quality Monitoring System using Arduino", *AMERICAN Journal of Engineering, Mechanics and Architecture*, vol.(2), No.(6), 2024.

10. Raheemah, Auda. "Implementing an intelligent air quality monitoring device for the intensive care units in hospitals." *Journal homepage: https://gjrpublication. com/gjrecs* 4.04 (2024).

11. Auda Raheemah Odhaib , Abbas Swayeh Atiyah and Mohammed Zuhair Azeez.."Vibration faults detection using wireless and neural network", Muthanna Journal of Engineering and Technology, Vol. (11), Issue (2), Year (2023)