PERSONAL

Name: Yahiea M. H. Al-Naiemy,

Sex: Male,

Marital Status: Married with Three children,

Citizenship: Iraqi,

Address: Iraq, Diyala, Baqubah , Almualemeen Q. , Ave #402, Street # 8 , Home # 41.

Mobile: (00964) 07705788168,

Work: Lecturer in Diyala University, College of Science, Computer Department,

E-mail: ymainaiemy@ualr.edu.

ymainaiemy@sciences.uodiyala.edu.iq

Yahiea_1971@yahoo.com

EDUCATION

Master in Electrical Engineering / Wireless communication 2012

First Rank, with overall Graduation Cumulative Average 95%,

From the Applied Science and System Engineering Department, University of Arkansas at Little Rock, USA

All classes, Passed with (Highest Honors Award), January 2011,

Master thesis took place in March 2012, entitled “Design, Fabrication and Testing of Flexible Inkjet-Printed Antennas”,.

Areas of Concentration: Applied computational electromagnetic analysis on nano-structural materials, antennas and propagation, wireless communications systems, global positioning system, electromagnetic scattering, microwave theory and techniques, micro- and nano-scale structure modeling, and metamaterial modeling and analysis,

Graduate Courses: ACSI 7399 Nanostructural Materials, SYEN 5356 Electromagnetic Waves & Antennas, SYNE 5356 RF Techniques & Systems, SYEN 7357 Advanced Antennas for Wireless System, SYEN 7313 System Management & Evaluation, SYEN 5329 Electric Power Systems

(GPA 4/4),

Advisor: Full Professor Hussain M. Al-Rizzo.

September 1999 to February 2001,

High Diploma Department, 2001

Department of Information Systems, Iraqi Commission for Computers and Informatics, Baghdad, Iraq,

Graduate Courses: Software Engineering Principles, Discrete Mathematic Structures, Software Applications, Introduction to Computer Science, Programming in Pascal Language, Network and Communications, Database, Artificial intelligence, Operating System, Systems Analysis and Design, Computer Graphics, Information Systems Security, Management Information Systems.

First Rank, with overall Graduation Cumulative Average 80.294%,

Thesis Title: Systematic Educational for Design Logic Circuits,

Advisor: Dr. Ali shmail, Department of Information Systems, Iraqi Commission for Computers and Informatics, Baghdad, Iraq,

September 1994 to June 1998,

B.Sc., Electrical Engineering/1998

Department of Electrical Engineering, Mustansiriyah University, Baghdad, Iraq,

Senior Design Project: Dc servo motor by using PID controller,

Advisor: Dr. Khalid Al-Naimey, Faculty of Engineering, Mustansiriyah University.

September 1991 to June 1993,

Diploma in communication /1993

Department of Microwave, High Institution of the Telecommunications and Post,

Baghdad, Iraq,

First Rank, with overall Graduation Cumulative Average 94.59%,

FIELDS OF INTEREST

Modeling of the Electromagnetic interaction with nano-structures, design and technology development for nanoelectronic devices, advanced engineering electromagnetics, microwave theory and techniques, computer-aided design of guided waves components and antennas, electromagnetic wave propagation, electromagnetic interaction and scattering in complex media, global positioning system, MIMO wireless communications.

QUALIFICATIONS

- Strong background in theoretical and numerical modeling of classical electromagnetic problems,
- Experience in developing, fabricating and testing RF and Microwave devices based on micro and nano scale structures,
- An excellent experience in modeling and simulating RF and Microwave devices based on micro and nano scale structures,
- In-depth knowledge of engineering, design, testing and modeling of passive microwave and millimeter wave components,
- Experienced in CST's Microwave Studio, Ansoft's HFSS, and Ansoft's Designer.

RESEARCH AND INDUSTRIAL EXPERIENCE

- Micro and Nano structure synthesis and fabrication to be combined with electronic and microwave devices for improving macro devices functionality and utilization efficiency,
- Design of antennas and wireless communications systems for implantable medical devices,
- Design, analysis, and simulation of smart antenna systems for cellular communications,
- Design and analysis of linearly and circularly polarized microstrip antenna arrays for aerospace and terrestrial communications,
- Use of modern electromagnetics computational techniques to simulate high-power microwave interaction and transient-temperature profiles within lossy dielectric and magnetic materials,
- Design, modeling and testing of prototype and industrial RFID with low-power electronic circuits,
- Modeling and simulation of left hand material/ metamaterial based RF, microwave and optical devices,
- Measurement and analysis of electromagnetic constitutive parameters at microwave, millimeter wave and optical frequencies; and Numerical modeling of electromagnetic wave scattering and absorption by arbitrarily shaped multilayered and homogeneous, perfectly conducting and dielectric objects using:
- Analytical Methods,
- Method of Moments,
- Finite Element Method,
- Finite-Difference Time Domain Method,

- Finite-Difference Frequency Domain Method.
- Concentrated training program on the operation and maintenance of anechoic chamber at UALR, Little Rock, Arkansas, USA, December 2009,
- Intensive short training course on the operation and using of Agilent microwave equipment (Network Analyzer, Power Spectrum and Microwave generator) at UALR, Little Rock, Arkansas, USA.

One day course of using and running a FujiFilm material printer, Little Rock, Arkansas, USA, January 2010,

- Intensive course on operation and using MIMO system, Little Rock, Arkansas, USA, February 2010.

COMPUTER SKILLS

Programming Languages:

Basic, FORTRAN, Pascal, Assembly, C, C++, Visual Basic

Operating Systems:

MS-DOS, Macintosh, UNIX, WINDOWS, IBM Mainframes,

Engineering Software Packages:

- Matlab,
- Microwave Studio and Microwave Design Studio, Computer Simulation Technology GmbH, Germany,
- High Frequency System Simulator (HFSS), High Frequency Designer, Maxwell 2-D, and Maxwell 3-D, Ansoft's Corporation,
- Agilent's Advanced Design System.
- Opnet network simulation

- Electronic work patch

PROFESSIONAL EXPERIENCE

August 2000-2003

Working as Assistant Engineer in the international center of internet service, Iraq,

TEACHING

June 2003- Jun 2009

University of Diyala, College of Science, Iraq,

Taught the classes

- Logic Design.
- Computers.
- Internet.
- Fundamentals of Digital Electronics.

October 2004- Jun 2007

University of Diyala, College of Education , Iraq,

Taught the class Logic Design.

October 2007- Jun 2009

University of Diyala, College of Engineering , Iraq,

Taught the classes

- Logic Design-1st Stage
- Fundamentals of Digital Electronics- 3rd Stage

October 2012-

University of Diyala, College of Science, Iraq,

Teaching the classes

- Logic Design-1st Stage
- Data Communications and Computer Networks- 4th Stage
- Probability and statistics- 1st Stage
- Computer Networks -3rd Stage
- Fundamental of Computers -1st Stage

October 2012-

University of Diyala, College of Engineering , Iraq,

Teaching the class Wave Propagation and Antennas- 3rd Stage

October 2012-

Al-Yarmouk College University, Communications Engineering Dept. , Diyala/ Iraq,

Teaching the class Mobile Communications -4th stage

Teaching the class Digital Communications -3rd stage

Computer Applications – 2nd Stage

Laboratory Development

Logic Design Laboratory.

Fundamentals of Digital Electronics Laboratory.

Computers Laboratory.

Internet Laboratory.

Networks Laboratory.

AWARDS

1-Best teacher in computer department, college of science, Diyala University, 2015.

2-One among of the best researchers in Diyala University, 2014.

3-M.K TESTERMAN AWARD for Excellent in Research, University of Arkansas at Little Rock, USA

4-First Rank for the Graduate student, Applied Science and System Engineering Department, University of Arkansas at Little Rock, USA

PUBLICATIONS

Published Journals and Conferences

Bandwidth Enhancement of Rectangular Patch

1. Ahmad H. Al-Shaheen and **Yahiea Alnaiemy**, "Electromagnetic Bandwidth Enhancement of Rectangular Patch Microstrip Antenna", Second International Scientific Conference of Southern Technical University, March 2017.
2. Taha A. Elwi and **Yahiea Alnaiemy**, "Electromagnetic Characterizations of Cement Using Free Space Technique for the Application of Buried Object Detection", DIYALA JOURNAL OF PURE SCIENCES, July 2015, Vol.11, Issue 3.
3. **Yahiea Alnaiemy**, "A Miniaturized Folded Microstrip MIMO Antenna Array for Biomedical Applications", DIYALA JOURNAL OF ENGINEERING SCIENCES, March 2015, Vol.8, Issue 2.
4. Taha A. Elwi and **Yahiea Alnaiemy**, "Conformal Antenna Array for MIMO Applications", Journal of Electromagnetic Analysis and Applications, March 2014, Vol.6.
5. Amer H. Al Habsi, **Yahiea Al-Naiemy**, Hussain M. Al-Rizzo, Robert Akl, and Maytham M. Hammood, "Parity Assisted Decoding for QAM in AWGN Channels", International Journal of Engineering and Innovative Technology (IJEIT), February 2014, Vol.3 Issue.8.
6. Amer H. Al Habsi, **Yahiea Al-Naiemy**, Hussain M. Al-Rizzo, and Robert Akl, "Spectrally Efficient Modulation and Turbo Coding for Wireless Communication in Gaussian Channel",

International Journal of Engineering and Innovative Technology (IJEIT), February 2014, Vol.3 Issue.8.

7. **Yahiea Al-Naiemy**, Taha A. Elwi, Haider R. Khaleel and Hussain M. Al-Rizzo, "A Systematic Approach for Design, Fabrication and Testing of Microstrip Antenna Using Ink-Jet Printing" accepted in Hindawi Publishing Corp. Int. Journal of Ant. & Prop. vol. 2007, pp. 1-9, Oct. 2012.
8. Taha A. Elwi, Hussain M. Al-Rizzo, **Yahiea Al-Naiemy** and Haider R. Khaleel, " Miniaturized Microstrip Antenna Array with Ultra Mutual Coupling Reduction for Wearable MIMO Systems, " IEEE AP-S International Symposium on Antennas and Propagation NC/URSI National Radio Science Meeting in Spokane, Washington, USA, July 3-8, 2011.
9. Haider R. Khaleel, Hussain M. Al-Rizzo, Daniel G. Rucker and **Yahiea Al-Naiemy**, "Flexible Printed Monopole Antennas for WLAN Applications," IEEE AP-S International Symposium on Antennas and Propagation NC/URSI National Radio Science Meeting in Spokane, Washington, USA, July 3-8, 2011.
10. Taha A. Elwi, Hussain M. Al-Rizzo, Nidhal Bouaynaya, **Yahiea Al-Naiemy** and Maytham M. Hammood, "Theory of Gain Enhancement of UC-PBG Antenna Structure Without Invoking Maxwell's Equations: An Array Signal Processing Approach ," Progress In Electromagnetics Research, vol. 34, pp. 15-30, Aug. 2011.