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Prof. Dr. Qaysar Salih Mahdi
Professor of Communication Engineering & Signal
Processing

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Name: **Qaysar Salih Mahdi**

Birth date : 1st of July. 1955, Baghdad – Iraq.

Married with 6 son's and 1 daughter's

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Degrees :

1. Appreciation , honorable , Ph.D. in Communication Engineering (Distinction), Appreciation VPI Degree, Ministry of Military Industry & Ministry of Higher Education and Scientific Research Iraq , University of Technology, Feb.2002.
2. M.Sc. Communication Engineering (Distinction), Military Engineering College, Baghdad, Feb. 1988.
3. B.Sc., Electrical Engineering, Communication Engineering, college of Engineering, Basrah University, July, 1978.

Scientific Titles :

1. Assistant Lecturer in Arab Gulf Academy, Basrah, 1979 .
2. Lecturer in Arab Gulf Academy, Basrah 1988.
3. Assistant Prof. of Communication Engineering & Signal Processing: Arab Gulf Academy, Sept.1996.
4. Prof. of Communication Engineering & Signal Processing: University of Technology, Sept.2002.
5. Chairman of Researches of Radar Engineering & Radio Wave Propagation: - Ministry of Higher Education, Baghdad, Sept.2002.
6. Prof. of Communication Engineering & Signal Processing: Ministry of Higher Education and Scientific Research Kurdistan, Sept.2006.

Last 5 Years & Previous Jobs :-

Last 5 Years :

1. UNESCO consultant for Virtual Campus Project in Iraq & Future (MMU) on line Multi Media University for E-learning center of Salahaddin university since 2013- present.
2. Technical Experts Team Manager of Salahaddin University Hawler Avicenna E-Learning center, since 2013- present.
3. Head of Communication & Computer Engineering Department, Cihan University Erbil, 2008-2012.
4. Vice chairman of the international conference of intelligent children West –East in MOSCOW for the period September 7-9, 2017.
5. Professor , Lecturer of the following subjects in Salahaddin University Hawler and Cihan University and E-Learning center and Polytechnic college, University of Technology Baghdad , Military Engineering College , Airforce Technical Institute , Erbil Technical Institute , Arab Gulf Academy since 1980 – present :
Electromagnetic fields & Magnetism ,Computer architecture, Computer Networks , Digital signal processing , Radar Engineering , Optical communication, Digital Logic Design , Advanced Data Communication, Advanced computer networks, Advanced digital signal processing, Electronics and digital circuits , Communication systems, Communication Theory ,Antennas & Wave Propagation, Information systems Architecture , Information security , Audio &

Video signal analysis and processing , E-Learning Technology , Image processing , (LMS) Learning Management System and Moodle Platform technology , M-Learning Technology and Mobile communication , Radar systems Modeling & Simulation , Microprocessors, Academic debate, optics and Image Metrology.

Previous Jobs :

6. Head of Communication & Radar Department, Arab Gulf Academy, 1981-1983.
7. Supervisor of the Iraqi naval contracts with the Italian Government for the period 1988-1991 in Italy.
8. Head of the combat systems department in the Iraqi supervision naval commission in Italy for Iraqi frigates and corvettes during the period 1988-1991.
9. Head of the engineering department of Al Rasheed Military medical hospital Iraq for the period 1992-1993.
10. The technical assistant of the Humad Shihab military hospital Iraq for the period 1994-1996.
11. The head of the naval department in the Armament and supply directorate ministry of defense Iraq for the period 1996-1998.
12. The head of the scientific department in the Airforce technical institute, Iraq, for the period 1998-2000.
13. Deputy of Head of Radar Engineering Department, Military Engineering College, 2000-2003.
14. Consultant for Al Hareth Company for manufacturing radar and missile systems (Iraq ministry of military industry) for the period 1998-2003.
15. Consultant for Al Meelad Company for development and research (Iraq ministry of military industry) for the period 1998-2003.
16. Consultant for Al Salam Company for manufacturing of communication systems (Iraq ministry of military industry) for the period 1998-2003.
17. Consultant for Al Waleed Company for manufacturing avionic and airborne systems (Iraq ministry of military industry) for the period 1998-2003.
18. Consultant for Al Qadesia Company for manufacturing military weapons (Iraq ministry of military industry) for the period 1998-2003.

Additional Jobs :

1. A member of the Iraqi Engineering Committee, 1978 – till now.
2. Lecturer in Communication. Eng. Naval College, Basrah –Iraq 1978.
3. Head of Communication Engineering Department Arab Gulf Academy Iraq 1983.
4. Consultant of Communication Engineering & Radar signal processing of the Iraqi Navy Italy 1988-1991.
5. Assistant Dean of Iraqi Air Force Military Technical Institute (AFMTI) 1998.
6. Head of Coordination and Planning Faculty of the Military Technical Institute 1996-1998.
7. Assistant Head of Radar Dept. of the Military Engineering College 2000.

Training Courses :

1. Naval Factory Director, Qualification and Preparation Management and administration of the LTSY (Logistic Technical Ship Yard) .
Main Course
Period: 1983-1984
Place: Fincanteri Group – Genoa - Italy
Reference: Iraqi Italy Naval Contract of supplying the naval fleet to Iraqi Navy. This course comprise the following sub-courses ;
2. Introduction to Fincanteri Naval Management logistic systems
Period: August, 8, 1983 – October,10,1983 .
Place: Fincanteri Ancifap Institute Genoa – Italy
3. Fire Control Training Course /
Period: October, 12,1983- November,15,1983
Place: Elsag Genoa – Italy
4. Ships Power Control Systems Training Course.
Period: November, 17, 1983- November, 28,1983.
Place: Euro Control Genoa –Italy.
5. Ship Design Structure Training Course.
Period: November, 29 , 1983- December, 15, 1983.
Place: Rivatrigosa Ship Yard- Genoa-Italy.
6. Under Water Radar Sonar Training course .
Period: Jan, 4, 1984 – Feb,1,1984.
Place: Krupp Atlas Electronic Company Germany Bremen .

- Reference: Iraqi Italy Naval Contract of supplying the naval fleet to Iraqi Navy.
7. Gyro Compass Training Course.
Period: Feb, 6, 1984- March,6,1984.
Place: Sejm – France.
 8. Ship automation training Course.
Period: March, 8,1984 – March,23,1984.
Place : Torino- Italy
 9. Rocket launcher and Machine Gun Training course.
Period : March,26,1984- April,13,1984.
Place : Breda- Italy.
 - 10.Torpedo Launcher Training Course .
Period: April, 16, 1984 – May,1,1984.
Place: Livorno- Motofedes – Italy.
 - 11.OTOMAT Surface – Surface Missile and127 mm Cannon Training Course.
Period: May, 3, 1984 - May, 25, 1984.
Place: Otomelara – Laspezia Italy.
 - 12.Naval Communication Systems Training Course.
Period: May, 28, 1984- June, 22, 1984.
Place: Elmer - Rome –Italy
 - 13.Air Surveillance Naval Radar Training Course.
Period: June, 25, 1984- June, 23, 1984.
Place: Selenia (Selex-Es now) Rome-Italy.
 - 14.Computer CIC Naval Tactical Operations System Training Course.
Period: June, 24, 1984-July, 8, 1984.
Place: Selenia (Now Selex-Es) Rome-Italy.
 15. IFF System Training Course.
Period: July, 10, 1984- July, 24, 1984.
Place: SMA – Florence -Italy.
 - 16.Ph.D. Course on Airborne Radar Signal Processing. Military Engineering College 1993.
 - 17.Airport Air Traffic Control Radar Simulation, Al Hareth Company 1998.
 - 18.Financing public and private Industrial projects Training course , Housing and Reconstruction Bank , Jordan-Amman , Feb,2,2004-Feb,23,2004. Ministry of Finance, Iraq, Rafidain Bank Training Plan for Year 2004.
 - 19.Advanced Teaching Methods Training course , March,3, 2011 – April, 3,2011, Salahaddin University Erbil/Kurdistan.

20.UNESCO Advanced Workshop for E-Learning Technology, Philadelphia University Amman-Jordan , April,1,2013-April, 5,2013.UNESCO PROGRAMS ON VIRTUAL CAMPUS PROJECT IN IRAQ .

Scientific Contributions :

1. Supervisor of Postgraduate , undergraduate , graduate students in Communication Engineering ,Antenna & Radio wave propagation, advanced data communication , Computer Simulation and advanced computer networks and advanced computer architecture :

A. Ph.D.:- (2) student

Design Modelling & Simulation of Radar Monitor by using C++ color Petri Net Programming

Computer Simulation and Modelling Courses of Air Traffic Control Radar & Radar Monitor by using C++ color Petri Net Programming
Simulation & Modelling of ATCR Radar Wave Propagation.

B. M.Sc. :- (10) students

Advanced Course on Computer Networks,

Advanced Course on Data communications,

Advanced course on embedded systems and Robotics.

Simulation & Modelling of ATCR Radar Wave Propagation.

Hardware and software Mobile Communications Networks .

Evaluation of Mobile GSM Performance under Different

Atmospheric Propagation Models

C. High Diploma :- (250) students

D. Bachelors : 150 students

2. Published papers in Antenna & Wave propagation & Communication engineering , Mobile communication and Wireless networks, Air Traffic Control Radar , Radar Display by using C++ color Petri Net Programming , Radar Wave Propagation and Mobile Wave Propagation in scientific journals and IEEE conferences USA, UK, China, Tunisia, and Belgrade :- (25) research papers.
3. Published books :- (5) books in the field of communication and radar engineering and mobile technology in teaching..

4. The 9th International Symposium on Antenna & Propagation, and EM Theory , November 29-December2,2010 Guangzhou, CHINA.
5. APS IEEE Antennas and Propagation Conference, 2011, UK, Loughborough University.
6. 4th International Scientific Conference of Salahaddin University-Erbil, 2011.
7. AP SAR2011 USA WASHINGTON.
8. The 5th International Conference and Workshop on Basic and Applied Sciences (5th ICOWOBAS) 2015.
9. Review of 2 Ph.D. Thesis in Electronics, university of Gauhati , India , Electronics & Communication Technology department.
10. Review of 55 scientific papers , since 2007 – present in engineering college electrical engineering department Salahaddin university and Kirkuk university and international conferences and journals.
11. Publishing 125 seminars and workshops in the field of , electronics , communication engineering , radar systems , E- Learning technology , Learning management systems, UNESCO Virtual Campus project , etc.
12. Training of 1550 M.Sc. and Ph.D. holders during Methods of Teaching Courses, 16,17,18,19 with Continues Education Center of Salahadding University , 2013- present.
13. Lecturing E-Learning Course , Ph.D. student from College of Language , Salahadding University , 2015-2016.
14. Performing workshop on cyber security for e-Banking in Erbil Stock Exchange .
15. Performing Mobile Learning Technology edition and publication in AVC E-learning center .
16. Publishing and oral presentation new article on title (Evaluation of Mobile GSM Performance under Different Atmospheric Propagation Models) in the Multimedia & Artificial Intelligence Conference in Rome, 19-21 /7/2018 in Rome, Italy.
17. Publishing four new articles in the field of communication and radar engineering in Eurasian Journal of Science & Engineering ISSN 2414-5629(Print) , ISSN 2414-5602(Online) 2018 .
Such as (Prediction of Mobile Radio Wave Propagation in Complex Topography.
Comparison Study of Multi-Beams Radar under Different Radar Cross Section and Different Transmitting Frequency .
Modeling of ATCR Radar Monitor System Using Computer simulation.

Survivability Analysis of GSM Network Systems .
(Evaluation of Mobile GSM Performance under Different
Atmospheric Propagation Models).

Society Membership's :

- Iraqi Engineering Union since 1978. .
- Iraqi Computer Society, Since 1988.
- Kurdistan Engineering Union since 2012.
- Membership of IEEE Communication Society , New York USA
2000-present
- Membership of IEEE Computer Society, New York USA 2000-
present.
- Membership of IEEE Electronics and Aerospace Society,
New York USA, 2000-present.
- Membership of IEEE Antenna & Propagation Society , New York
USA, 2000-present .
- Membership of IEEE Radar Engineering Society , New York USA,
2000-present .
- Member of the International Union of Iraqi Business men 2005-
present.
- Member of the International Union of Iraqi Businessmen Kurdistan-
Iraq 2015.

Experience:-

My long term experience was focused in the following fields;

1. Teaching in electronics, communication engineering, radar systems ,
mobile communication, E-learning management systems , MMU
university, and computer architectures and networks .
2. Training & Workshops designer and implementer in the field of
electronics, communication engineering , radar systems , mobile
communication, E-learning management systems , MMU university
and LMS system.
3. Business development and marketing.
4. Financing industrial & Academic and infrastructure projects,
5. Investment industrial & Academic and infrastructure projects,
6. Financing and investment planning
7. Cooperation and collaboration with international strong worldwide
mother companies in the field of Oil & Gas and Energy , Aerospace
and Avionics, communication Engineering ,

8. Coordinating and representing Gas & Oil, Energy, Financing , investment, constructions companies .
9. Medical equipment trading .
10. Establishing and Financing Academic universities.
11. Establishing university laboratories and trading ,
12. Manufacturing of naval combat systems .
13. Training and workshop skills designer in the fields of electronics, combat systems, ATC Airport radar systems, communication systems, mobile communication systems.

Achievements

1. Not less than 250 thanks and appreciation letter issued to us from 1979-present .
2. Seven appreciation and thanks letters from minister of finance Iraq 2003-2005.
3. Three appreciation and thanks letters from Ministry of Petroleum Iraq 2003-2005.
4. Two appreciation and thanks letters from Ministry of Defense Iraq 2003-2005.
5. Two appreciation and thanks letters from Ministry of Health Iraq 2003-2005.
6. Five appreciation and thanks letters from Ministry of Human Rights Iraq 2003-2005.
7. 6 appreciation and thanks letters from Ministry of work Iraq 2003-2005.
8. Achieving thanks and appreciation letter from the UNESCO director of Iraqi office in Jordan 2014 for the efforts of establishing the Avicenna e-Learning center of Salahaddin University Erbil Kurdistan .
9. Achieving 5 thanks and appreciation letters from the UNESCO Office Iraq , program officer of Virtual Campus project Mrs. Semia Al-Saadaoui for design and establishing the production management system of SUE AVC E-Learning center of Salahaddin university during the period 2013-2015.
10. Achieving 4 thanks and appreciation letters from the president of Salahaddin university, for the period 2013-2015 for publishing 3 papers in the IEEE AP2013 conference, Loughborough University , UK and establishing the E-Learning management system and producing the e-courses .

11. Achieving 5 thanks and appreciation letters from the president of Cihan university during the period 2010-2012.
12. Achieving thanks and appreciation letter from the IEEE antenna and propagation conference 2013, Loughborough University , UK for publishing 3 papers in the field of radar wave propagation, radar monitors .
13. Achieving Certificate and thanks and appreciation letter from the Scientific Committee of the IEEE AP2013 conference, Loughborough University , UK for our conference attendance.
14. Achieving certificate and thanks and appreciation letter from the Scientific Committee of the 4th International Scientific Conference of Salahaddin University, Kurdistan for being the scientific communication and electronics session supervisor 2011.
15. Achieving 2 Medals and thanks and appreciation letter from president of Cihan university on 2011 for publishing 5 papers in International conferences.
16. Achieving recommendation letter from the UNESCO Paris office , the supervisor and coordinator of the Virtual Campus Project of Ministry of Higher Education of Iraq and Kurdistan on 2014.
17. Achieving 4 thanks and appreciation letter from the 6,7, 8 Scientific conference of Ministry of Higher Education and Ministry of Military Industry Baghdad Iraq 2000-2002.
18. Achieving Certificate of Appreciation Doctoral degree from the Depute of Prime minister of Iraqi government Mr. the minister of ministry of military industry on 2002.
19. Achieving not less than 75 thanks and appreciation letters during my long service in the field of education and training from 1979-2000.
20. Achieving recommendation letter from the head of Electrical Engineering Department Salahaddin University , on 2009 who is now the Assist President of Salahaddin university for Scientific and postgraduate studies.
21. Achieving thank and appreciation certificate from President of Salahaddin university for designing and lecturing the CT & E-Learning Technology workshop , 2015.
22. Designing and managing and lecturing the ESX & SUE AVC Center advanced workshop, on ``E-Commerce & New Technologies `` , during April,2016 .
23. Lecturing on Electronic Exchange in ESX Erbil workshop on May,2016 in the field of E-Commerce Technology.

Accomplishments

THE ACADEMIC ACCOMPLISHMENTS

1. Design & Implementation of electronic labs in Arab Gulf Academy on 1980-1983 .
2. Design and implementation software package for the design and planning the Air Traffic Radar control systems for Adelaide airport in Australia 1988 .
3. Design software package for Simulation and Modeling Radio Propagation under Ducting conditions for Middle East, Iraq and Arabian Gulf countries 1988.
3. Computer Modeling of Middle East , Iraq and Arabian Gulf countries Atmospheres for 20 years .
4. Design and implementation computer Simulation Labs for Radio Wave Propagation for the university of Technology and Military Engineering College on 2000.
5. Design & Simulation and implementation software package for Radar Display in University of Technology On 2002.
6. Design & Simulation and implementation of AWACS Radar signal processing & Wave Propagation under jamming conditions on 2002.
7. Producing the 25 video lectures during the debating activity for the first year students in Electrical Engineering department Salahaddin University.
8. Producing 25 posters, 25 seminars and 25 reports with our students during teaching the scientific debate activities under my supervision.
9. Design and organization of the Web page of Avicenna E-Learning portal for Salahaddin University 2014.
10. Producing and uploading 3 E-courses (180 video Timesheet Technology lectures) in the fields digital signal processing , and

- Electromagnetic fields on Salahaddin University Web site portal during the period 2013-2014.
11. Design and implementation 8086 microprocessor simulation lab for Electronic Department in Engineering College University of Salahaddin in Erbil on 2007 .
 12. Design & Computer simulation Lab of UHF Wireless Radio wave propagation under complex environments on 2008 Salahaddin University .
 13. Design & implementation software package Lab for 3D digital terrain maps by Mobile Radio system on 2008.
 14. CAD of 3D radar coverage by C++ & Matlab lab software programming.
 15. Design and Modeling and implementation of different radar coverage lab by using beam forming techniques.
 16. Design software package for simultaneous different radar beams for different tasks and environments on 2008.
 17. Design and implementation logic and Electronic Labs for Cihan University on 2008.
 18. Design and implementation of Communication lab in Cihan University on 2009.
 19. Design and implementation of Visual Simulation & MathCAD Labs of Communication Systems in Cihan University on 2009.
 20. Performance Prediction of GSM Wireless Networks systems by Survivability analysis and modeling on 2009.
 21. Design new ppt program for video lecturing, and E-learning for on line universities.
 22. Modification for developing Avicenna E-Learning center SUH and training the staff with Limsee3 and Timesheets.

23. Design and implementation of Inspiration science centers for excellence (Technology and software Virtual and Hardware Labs , Physics , Chemistry , Biology , Mathematics) for secondary schools for Ministry of education (Erbil , Sulaimania & Dohuk) KRG Iraq and ministry of education in Kazakhstan , ministry of education in south Africa and Kongho.
24. Design and implementation Virtual Labs and Pilot Simulator centers (Hardware and Software) for training of Engineers and Technicians and for Erbil Airport.
25. Design and implementation Virtual and hardware labs Electricity lab. Logic and digital electronics lab, Antenna and Propagation lab, Microwave lab , Communication theory lab , DSP lab, Optical communication lab , for Salahadding university , Cihan university , University of Technology , military engineering college , Arab gulf academy .
26. Producing statistical evaluation reports to the UNESCO office in Iraq about the AVC Salahaddin E-Learning center.
27. Producing statistical evaluation researches and studies about the E-Business and E-Learning in Economy and the ICT technology.
28. Performing 5 workshops for the experts about e-courses and virtual assessment.
29. Design and implementation the e-schools project for ministry of education in Kurdistan 2015.
30. Training not less than 150 Professors, Doctors and M.Sc. Holders in the field of E-learning Technology, E-Course Production and virtual assessment.
31. Performing 13 Training courses and workshops for Professors , Ph.D. and M.Sc. holders Teachers in the field of Virtual campus Project and E-Learning Technology for Salahaddin University staff during the period 2012-2015.
32. Training not less than 1300 lecturers of Professors, doctors, and M.Sc. Holders in private and public universities in Kurdistan Iraq 2013-2015 in the field of E-Learning Technology and e-course production.
33. Performing not less than 235 seminars for the period 2009-2015 in the field of Modern radar and communication Technology, Computer technology, Wireless communication, E-Learning Technology, Virtual Campus , Virtual assessments, Virtual Laboratories , Digital Terrain Mapping and Digital Atmosphere Mapping.

Languages :

Excellent in English language and fair knowledge of Italian language.
Native Language Arabic, and Medium in Kurdish language.

Thank you for your kind patient