

CURRICULUM VITAE



Asst.Prof Dr.Eng Raghad Zuhair Yousif
Electrical/Communication Eng.



NAME:

Raghad Zuhair Yousif Maqdaci Hana

Lecturer at:

**Salahaddin University:
Communication Applied Dep
And
Catholic University in Erbil
Information Technology Dep**

Religion: Christian Assyriac

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<http://www.iasj.net>(Site of personal academic
Publications in Iraqi Academic Scientific Journals)
[http://www.eng-
usalah.org/old_website/raghadzuhair.htm](http://www.eng-usalah.org/old_website/raghadzuhair.htm)

my values	integrity, diversity, commitment, teamwork, PROFESSIONALISM, respect
skills	Technical skills— Word processing, analyzing, calculating, COMPUETR skills, communication, critical thinking, transferrable skills: ACKNOWLEDGING, recommending, leadership, negotiation, MANAGING, organizing, following-up, anticipating, leadership, counseling, deciding, problem solving, discussing, explaining, planning
my personality traits	adaptability, loyalty, positivism, creativity, risk taking, tolerance, persistence, social
Objectives	Seeking a suitable position looking for substantial responsibility where my past and varied experience would be fully utilized in a career opportunity and where making a significant contribution to the success of my employer will gain career advancement opportunities.
Personal Information	Name: Raghad Zuhair Yousif Al-Macdici Hana DOB: 1975 POB: Iraq-Baghdad Gender: Mail Marital Status: Married with two kids. Nationality: Iraqi. Scientific Rank: Assistant Professor in Communication technology Eng. Religion: Christian. Knowledge of languages: Arabic, English, Kurdish. Home address: Kurdistan –Erbil-Ankawa-108.

Education	<p>1- 1994–1998 Baghdad University – Iraq, Bachelor, Engineering in Electronics & Communication Eng College of Engineering. Distinction 73%, ranked 3rd.</p> <p>2- 1999–2001 Al-Mustansriya University – Iraq, MSc, in</p>
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	<p>Electronics and Communication Engineering (Digital Image Processing) /College of Engineering/Dep.of Electrical Engineering. With grade excellent for the thesis Entitled “Designing Security Keys for Satellite Digital Image Encryption”.</p> <p>3- 2001–2002 University of Technology Baghdad – Iraq, PhD. in Electronics and Communication Engineering (Mobile Channel Coding) /Department of Electrical & Electronic Engineering. With grade excellent for the thesis Entitled “FPGA Implementation of Flexible Hybrid Convolutional Concatenated Codec”.</p> <p>4- 4-2010-2011 Salahaddin University –Kurdistan –Iraq Asst.Prof awarded in Computer and Communication Engineering From Department of Software Engineering/ College of Engineering.</p>
Membership	<p>1-Member of the Iraqi Engineering syndicate</p> <p>2- Member of the Kurdistan Engineering syndicate</p> <p>3- Member of the Hadyad Society of competencies Erbil-Iraq</p>

References	<p>1-Dr. Hassan Majid Hassoon AL-DELPHI,Assistant Professor in Mechanical Engineering</p> <p>2-Prof Dr. Siddeeq Yousif Ameen Professor, Dean of Engineering, College Gulf University ,Kingdom of Bahrain Prof-siddeeq@ieee.org,prof-siddeeq.ameen@gulfuniversity.net ,mobile:+97339304338</p> <p>3- Prof Dr. Ahmed Tariq Sadeq, Assistant Reader in Computing & Mathematical Science, University of Technology, Department of Computer Science,Atarek@yahoo.com +7703954218</p>
Certificates and Training	<p>Certificate from CISCO Academy to be instructor of CCNA1.</p> <p>Certificate Online Course Development Course at UNESCO –Iraq-Office Philadelphia University Amman</p> <p>Computer programming in Matlab Trainer.</p> <p>Microsoft Visio training course.</p> <p>Computer skills course Trainer for Salahaddin University instructors.</p>

Work Experience

Experience	<ul style="list-style-type: none"> - 2016-2015 Salahaddin University Kurdistan Iraq ,College of Science Dep.of Physics
Responsibilities	<p>Assistant Professor</p> <ul style="list-style-type: none"> - I'm teaching different courses such as: Computational Physics (MSc),Remote Sensing and Image(Msc) and (digital signal processing)4th stage communication ,(Mobile radio) 4th stage communication .(Medical imaging) 4th stage Medical physics
Experience	<ul style="list-style-type: none"> - 2014– 2015 Technical College-Hawler ,Kurdistan Iraq
Responsibilities	<p>Assistant Professor</p> <ul style="list-style-type: none"> - I've taught many courses at the Technical College like: Information system Architecture(4th),Application Building and Software Construction (MSc) - I've been appointed as external Lecturer at Department of Information System Engineering, Technical College –Hawler.
Experience	<ul style="list-style-type: none"> - 2103-2014 Salahaddin University Kurdistan Iraq ,College of Science Dep.of Physics
Responsibilities	<p>Assistant Professor</p> <ul style="list-style-type: none"> - I'm teaching different courses such as: Computational Physics (MSc),Remote Sensing and Image(Msc) and (digital signal processing)4th stage communication ,(Mobile radio) 4th stage communication .(Medical imaging) 4th stage Medical physics
Experience	<ul style="list-style-type: none"> - 2013– 2014 Technical College-Hawler ,Kurdistan Iraq
Responsibilities	<p>Assistant Professor</p> <ul style="list-style-type: none"> - I've taught many courses at the Technical College like: Information system Architecture(4th),Application Building and Software Construction (MSc) - I've been appointed as external Lecturer at Department of Information System Engineering, Technical College –Hawler.
Experience	<ul style="list-style-type: none"> - 2012 – 2013 Salahaddin University Kurdistan Iraq ,College of Science Dep.of Physics
Responsibilities	<p>Assistant Professor</p> <ul style="list-style-type: none"> - I'm teaching different courses such as: Electronic I (3rd),Communication Eng(3rd) Computational Physics (MSc),Remote Sensing and Image Processing (MSc). - External Lecturer at Department of Information System Engineering Technical college –Hawler and Koya University college of Engineering Dep.of Software eng.
Experience	<ul style="list-style-type: none"> - 2011 – 2012 Salahaddin University Kurdistan Iraq ,ICT Center

Responsibilities	Assistant Professor <ul style="list-style-type: none"> - I'm teaching different courses such as: Computer Architecture (3rd), Programming language and Computer Skills (1st). - External Lecturer at Department of Computer Science college of Education and Fundamental Education college Department of General Science
Experience Responsibilities	<ul style="list-style-type: none"> - 2011– 2012 Technical College-Hawler ,Kurdistan Iraq Assistant Professor <ul style="list-style-type: none"> - I've taught many courses at the Technical College like: Video analysis(3rd) and compression, Advance Computer Networks Design(4th) ,. - I've been appointed as external Lecturer at Department of Information System Engineering, Technical College –Hawler.
Experience Responsibilities	<ul style="list-style-type: none"> - 2006 – 2010 Salahaddin University – Erbil College of Engineering Lecturer and PhD Carrier <ul style="list-style-type: none"> - I've taught many courses at the Salahaddin University – Erbil College of Engineering/ Department of Software Engineering like: Computer Architecture I, Digital System Designs, Digital Image Processing, Computer Graphics, - During this period I've effectively supervised many MSc and BSc thesis's
Experience Responsibilities	<ul style="list-style-type: none"> - 2006 – 2010 Salahaddin University – Erbil College of Engineering Lecturer and PhD Carrier <ul style="list-style-type: none"> - I've taught many courses in postgraduate (MSc) at the Salahaddin University – Erbil College of Engineering/ Department of Software Engineering like: Advanced Network Security, Multimedia System Technologies, and Digital Image Processing. Image Compression, Wireless and broad band Networking - During this period I've effectively supervised many MSc and BSc thesis's
Experience Responsibilities	<ul style="list-style-type: none"> - 2001 – 2006 Al-Mustansriya University Baghdad Assistant Lecturer /later Lecture PhD. Carrier <ul style="list-style-type: none"> - I've taught many courses in under graduate (BSc) at Al-Mustansriya University – Baghdad College of Engineering/ Department of Computer Software Engineering like: Digital Image Processing. Data Security Computer Networks • During this period I've effectively supervised many BSc thesis's
Experience Responsibilities	<ul style="list-style-type: none"> - 2006 – 2008 Soran University –College of Education Department of Computer Science Lecturer / PhD. I've taught many courses in under graduate (BSc) at Soran University (College of Education / Department of Computer Science like: database 3 rd stage. Web programming 4 th stage, Compiler design 3 rd stage computer architecture 3 rd stage

<p>Teaching Experience BSc</p>	<p>Digital Image Processing Video Analysis Advanced Computer Networks Real time systems Computational Theory Digital and Analogue Communication Advanced Computer Networks Computer Skills I Microcomputer Application Computer Skills II Structured programming Object Oriented Programming (OOP) Programming by Components Database I Database II Computer Graphics Concepts of programming languages Compiler Design -medical imaging -Mobile Radio Communication -Information system Architecture</p>
<p>Teaching Experience</p>	<p>Electronic devises Principle of Communication system Digital signal processing</p> <p>Digital Image Processing Computer Network Security Advanced Computer Networks Real time systems Multimedia system technology Digital and Analogue Communication Remote sensing Computational physics -Application Building and Software Construction</p>

<p>Programming Experience</p>	<p>- Matlab,C++ ,VHDL,Visual Basic,Java,OPNET,Packet Tracer</p>
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<p>Seminars</p>	<p>• "VLAN Technology", Technical College-Hawler , Date 21/11/2011.</p>
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	<ul style="list-style-type: none"> • “Medical Image Enhancement using Wavelet Transform”, Software Engineering Dep. College of Engineering Salahaddin University, Hawler, Date 3/11/2011. • “Avicenna Pedagogical model”, Salahaddin University ICT center , Erbil, ST Date 5/4/2012.
<p>Postgraduate Thesis's on my Supervisor</p> <p> </p> <p>Currently under my supervision :</p>	<ul style="list-style-type: none"> • 2006-2007 supervisor of Thesis entitled "Designing of Kurdistan Scientific network using OPNET," submitted to department of SE, Salahaddin University-Hawler college of Engineering. • 2007-2008 supervisor of Thesis entitled "A proposal of Hybrid Public Key cryptosystem for E-commerce" submitted to department of SE, Salahaddin University-Hawler college of Engineering. • 2008-2009 supervisor of Thesis entitled "Performance of Turbo-coded wavelet packet –OFDM system on flat Rayleily fading channel” submitted to department of EE, Salahaddin University-Hawler college of Engineering. • 2009 -2010 supervisor of Thesis entitled "Ant colony multicast network optimization” submitted to department of SE, Salahaddin University-Hawler college of Engineering. • 2010 -2011 supervisor of Thesis entitled "Proposed Scheme for Kurdish Text Symmetric Encryption Based on DNA Computing” submitted to department of CS, Salahaddin University-Hawler college of Education. • 2011 -2012 supervisor of Thesis entitled "A proposal of Expert system for management and monitoring of gas reduction system” submitted to department of SE, Salahaddin University-Hawler college of Engineering. <ul style="list-style-type: none"> 1. 2015-2016 supervisor of MSc Thesis entitled “performance of optical OFDM radio over fiber system” department of physics Salahaddin University-Hawler College of science. 2. 2016-2018 supervisor of PhD student with the thesis entitled “Thyroid nodule cancer detection” department of physics Salahaddin University-Hawler College of science. 3. 2015-2017 supervisor of MSc Thesis entitled “Network coding based Kurdistan network Design ”Dep of ISE Erbil polytechnic University.
<p>HONORS AND PRIZES:</p>	<ul style="list-style-type: none"> • 2003 awarded the prize for being best 3rd Arabic researcher from Association of Arab Universities office of Secretary General. In the field of Data security in the age of information technology. • 2010 Acknowledgements donated from Minister of Higher Education and Scientific Researches, for the perfect job in managing the Quality Assurance committee at the SE Department. • 2006 Acknowledgements given form Manager of SISCO Academy for acquiring greater than 80% in the examination of the SISCO academy CCNA1 level networking course for instructor. • 2006 Acknowledgements given form president of Al Mustansriya University for acquiring rank 2 in the SISCO academy CCNA1 Networking course for instructor. • 2006 evaluation from mobile research laboratory at university of Plymouth, UK to my Ph.D. thesis to assert its originality. • 2005 evaluation from Dep. of computer and communication Eng. University of RIMT, Victoria, Australia to my Ph.D. thesis asserting its originality.

	<ul style="list-style-type: none"> • 2001 Acknowledgements donated from president of University of Technology for submitting a research to the 2nd conference of computer, communication, and control engineering held (29-30) Dec 2001, at University of technology. • 2002 Acknowledgements donated from president of University of Technology for submitting a research to the 2nd conference of computer, communication, and control engineering held (19-30) Dec 2002, at University of Technology. • Engineering College for the administration of the first Software products exhibition (SEDAF) arranged at department of SE, Salahaddin University-Hawler college of Engineering. • Engineering College at Salahaddin University for the perfect job in managing the examination committee at the SE Department. • Engineering College at Salahaddin University for the perfect job in managing the examination committee at the SE Department. • 2009 Acknowledgements donated from president of Salahaddin University for the perfect job in managing the examination committee at the SE Department. • 2012 Congratulation from president of Salahaddin University for being Assistant Professor. • 2008 Acknowledgements donated from Vice president of Salahaddin University for the perfect job in managing the examination committee at the SE Department. • 2014 Certificate of Appreciation from Dean of college of science in Salahaddin University-Erbil for upgrading college site. <ul style="list-style-type: none"> • 2015 Acknowledgements donated by office of General Directorate of Scientific researches in Salahaddin university for being an instructor on the workshop held by this office on optical fiber technology.
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<p>Committees and Scientific activates</p>	<ul style="list-style-type: none"> • 2009 committee head formed by the minister of Higher Education-Kurdistan region to evaluate the system of learning in private universities. • 2011 Member in the committee formed by the Head of Salahaddin University in collecting and analyzing the result of quality assurance for all colleges of Salahaddin University. • 2012 Member of PhD. Thesis discussion Committee for the Thesis entitled "Improved Methods for Evaluation of amount of fluorescent positive amino acid in the Brest and skin cancer" submitted to the Hawler Medical University for PhD in Biophysics , <ul style="list-style-type: none"> • 2016 Member of examination committee of PhD student • 2016 Member of scientific committee in physics department
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No.Vol	Journal or Conference	Research Title	
No.4 Vol.22 October 2010 (Single)	Zanco Journal For Pure and Applied Sciences Salahaddin University ISSN 2218-0230	New method for low Vision JPGE Medical Image Enhancement with modified Quantization table	1
No.17 December 2010	Journal of Koya University ISSN 2073-0713	Proposal of Three Enhanced Hybrid Public key cryptography methods	2
No.1 Vol. 13 March 2009	Engineering and Development ,Refereed scientific Engineering Journal "College of engineering Al-Mustansriya University " ISSN 1813-7822	FPGA Implementation of parallel and pipelined Turbo Encoder for Real-Time Applications	3
No.1 Vol.2 June 2009 (Single)	Diyala Journal of Engineering sciences ISSN 1999-8716	Low Vision X-ray Image Contrast Enhancement using wavelet transform and Non-linear Mapping	4
20-21 April 2010	2 nd Information technology conference	Designing DWDM Based IP-Network for Kurdistan Region Academic Institutions Using OPNET	5
No.4 Vol.10 December 2006	Engineering and Development ,Refereed scientific Engineering Journal "College of engineering Al-Mustansriya University " ISSN 1813-7822	Protection of Transmitted MRI Over Channel with Packet losses	6
Vol.6, No.4, Oct, 2002.	Engineering and Development ,Refereed scientific Engineering Journal "College of engineering Al-Mustansriya University " ISSN 1813-7822	Modified JPL Key-stream Generator for Digital Image Encryption	7
Vol13. No.1 March 2009	Engineering and Development ,Refereed scientific Engineering Journal "College of engineering Al-Mustansriya University " ISSN 1813-7822	The performance of Turbo coded orthogonal frequency division multiplexing system over flat Rayleigh fading channel	8
Vol.9 No.3 Sep, 2005, Iraq.	Engineering and Development ,Refereed scientific Engineering Journal "College of engineering Al-Mustansriya University " ISSN 1813-7822	Performance of serial concatenated Convolutional code with Dithered Golden section channel Interleaver over frequency selective Rayleigh fading channel.	9
	accepted to publish in the proceeding of Saudi 18th National Computer Conference (NCC18) Information Technology and Sustainable Development. 2006	Adaptive (Parallel /Serial) Concatenated Convolution Codec with Structured Dithered Golden Section Interleaver over AWGN and Rayleigh Flat Fading Channels	10
	Proceeding of 2 nd conference on Computer, Communication, and control Engineering at University of Technology, Baghdad, 2001.	Modified Large-Scale Randomization Key-stream Generator for Digital Image Encryption	11
	Proceeding of 3 rd conference on Computer, Communication, and control Engineering at University of Technology, Baghdad, 2002.	Multidimensional (Spatial, Amplitude, Spatial Frequency) Digital Image Encryption Schemes	12

No. Vol	Journal or Conference	Research title	
Vol.3 No.2 April 2013	IRACST-Engineering and technology Journal ISSN:2250-3498	GUI-Based Automatic Remote control of Gas Reduction System using PIC microcontroller	13
Vol.II ISSue.6 Sep. 2014	European Academic research ISSN-2286-4822	Simulation of high traffic and effective cost an academic Kurdistan network based on DWDM Using OPNET	14
Vol.4 Issue 7 Julay 2013	IJSER ISSN 2229-5518	An Improved Subset AntNet Algorithm for Numerical optimization of Shortest path Problem	15
(ICECS'15)March 16-17, 2015	5th International Conference on Electronics and Communication Systems Abu Dhabi, UAE	Novel Mining of Cancer via Mutation in Tumor Protein P53 using Quick Propagation Network	16

REFERENCES