Ali Al-Bayaty

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EDUCATION

University of New Haven, West Haven, CT (May 2014)
    MSEE (Master of Science in Electrical Engineering); GPA: 3.94 / 4.00
    Thesis title: '*Graphical-based Robotics Programming Language*'

University of New Haven, West Haven, CT (July 2012)
    Graduate Certificate in Computer Programming

Al-Nahrain University, Baghdad, Iraq (March 2006)
    Master of Science in Computer Engineering; Avg. Grade: 73.455 %
    Thesis title: '*Development of 1D Barcode Reader Software Tool*'

Al-Nahrain University, Baghdad, Iraq (September 2002)
    Bachelor of Science in Computer Engineering; Avg. Grade: 74.450 %
    Project title: '*PC-based Simple Robotic System*'; ranked the 3rd out of 16

PUBLICATIONS

Books:
- o   A. Al-Bayaty. (Sep. 2017). *Video Game Engine Development Guide (Using Xilinx$^©$ SoC Board).* (1 ed.) Series: Simplified Engineering Approaches. [Online]. vol. 4. ISBN: 978-1976400940. Available: https://www.amazon.com/dp/1976400945/

- o   A. AlZubaidi and A. Al-Bayaty. (Jul. 2017). *Introduction to Prosthetic Hand Engineering (Theory and Applications).* (1 ed.) Series: Simplified Engineering Approaches. [Online]. vol. 1. ISBN: 978-1974102822. Available: https://www.amazon.com/dp/1974102823/

Chapter:
- o   A. Al-Bayaty, "CT Radiation Therapy Planning (CT RTP)," in *Introduction to CT Techniques (Principles and Applications)*, A. AlZubaidi (ed.), 1 ed., Amman: Dar Safaa, 2017, ch. 3, pp 71-102, to be printed.

Journals:
- o   A. Al-Bayaty, "Software-Defined Robotics – Idea & Approach," *IEEE Robotics and Automation Letters (RAL)*, submitted. [Online]. Available: https://arxiv.org/abs/1708.05935

Journals (*cont'd*)

- o F. Al-Saedi and A. Al-Bayaty, "Development of a Barcode Reader System," *International Journal of Computer Trends and Technology (IJCTT),* vol. 30, no. 1, pp. 50-58, Dec. 2015, ISSN: 2231-2803.

Conference:

- o A. Hussein, A. AlZubaidi, A. Al-Bayaty, and Q. Habash, "IoT Real-Time Biometric Authentication System Based on ECG DCT feature extraction," in *2017 Second Al-Sadiq International Conference on Multidisciplinary in IT and Communication Science and Applications,* submitted, Baghdad, Iraq, Sep. 2017. [Online]. Available: https://arxiv.org/abs/1708.08189

Source-codes:

- o A. Al-Bayaty (Jul. 2014). GRPL (Graphical-based Robotics Programming Language). *GitHub, Inc.* [Online]. Available: https://github.com/albayaty/GRPL-Tool.git

- o A. Al-Bayaty (Jul. 2014). VGEP (Video Game Engine Project). *GitHub, Inc.* [Online]. Available: https://github.com/albayaty/Video-Game-Engine.git

AWARDS & MEMBERSHIP

- o Fulbright International Exchange Alumni Association, 2014
- o IEEE-HKN (Eta Kappa Nu) Honor Society Membership, 2012
- o Fulbright Masters Scholarship Award, 2010

MOOC (e-Learning)

- o Control of Mobile Robots, *Georgia Institute of Technology,* Coursera.org
- o Autonomous Mobile Robots, *Zürich University*, edX.org
- o Fundamentals of Image and Video Processing, *Northwestern University*, Coursera.org
- o Introduction to R, *Microsoft and DataCamp*, edX.org
- o Introduction to jQuery, *Microsoft*, edX.org
- o Real-Time Communications 101 (SBC, VoLTE, WebRTC & SDN), *Sonus Academy*

TEACHING EXPERIENCE

- o Lecturer in the "RTP (Radiotherapy Planning) Technology Systems" course at the Continuous Education Section, Al-Nahrain University, for the biomedical simulation system using MATLAB (February 2006)
- o Laboratory assistant for the C Programming undergraduate class at Computer Engineering Department, Al-Nahrain University (2003 – 2004)
- o Laboratory assistant for Computer Networking graduate class at Computer Engineering Department, Al-Nahrain University (2003 – 2004)

PROFFESIONAL EXPERIENCE

IRIS (Integrated Refugee and Immigrant Services), New Haven, CT (10/2015 – Present)
IT Coordinator
- o   Implemented and deployed of DHCP, DNS, Web, and Email servers using LAMP.
- o   Maintained Synology NAS—DiskStation and its securities and policies.
- o   Assured the system and related servers from any vulnerabilities and threats.
- o   Configured networking entities properly to match any future office(s) expansion.
- o   Installed Wireless Security Cameras for the on-site with remotely monitoring capability.
- o   Integrated IRIS clients' files to the unified on-the-cloud web-based database.
- o   Enhanced IRIS website using WordPress, CSS and JavaScript.
- o   Developed Android software called AGIR (Assistant Guide for Immigrant & Refugee).
- o   Designed & implemented a web portal for IRIS co-sponsors to exchange private data.
- o   Deployed internal Email/SMTP server between IRIS staff and other healthcare institutions to privately exchange emails, clients' health/clinical info, and privacy-related documents according to the HIPAA software-compliance.
- o   Deployed IT Ticketing Server for posting and managing technical problems/inquiries.
- o   Managed and administrated the on-the-cloud hosted VoIP server.

Dynamic Measurement Consultants LLC, Hamden, CT (7/2012 – 9/2012)
Accelerometer Board Developer (**Intern: 480 hours**)
- o   Programmed the accelerometer board for a reliable and a fast data acquisition rate.
- o   Used PIC24F microcontroller due to its robust controlling purposes for such project.
- o   Verified the reliable data conversion using 12-bit ADC chipset.
- o   Verified the fast data transferring to the host using USB 2.0 interface.

ZTE Corporation, Baghdad, Iraq (2/2005 – 9/2010)
Telecom Engineer
- o   Responsible for Zsmart billing sys. in three provinces: Baghdad, Najaf, and Nasiriyah.
- o   Set up ZXR10 (ZTE switches and routers) infrastructure for the overall billing sys.
- o   Designed the SDH/STM layouts for Access Networks (MSAN and MSAG), in Nasiriya.
- o   Chief of Engineers for CDMA2000 FuratPhone Telecom project, in Nasiriya.
- o   Training Manager for ZTE products (MSS, PDSN, and Zsmart billing systems) at FuratPhone Telecom.
- o   Set up the MSS and the PDSN sub-systems for CDMA2000 Najaf Project.

References available upon request …