Ali Al-Bayaty

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SUMMARY

Building and managing servers (on-premises and cloud-based: LAMP, NAS, QuickBooks, G Suite, VoIP, and NVR systems), handling websites and databases security, and dealing with networking hardware/software needs using reusable resources and open-source approaches have always motivated me to seeking for my outlook career, a Senior System Engineer.

EDUCATION

University of New Haven

CT, USA

MSEE (Master of Science in Electrical Engineering)

May 2014

GPA: 3.94 / 4.00

Thesis title: 'Graphical-based Robotics Programming Language' U.S. Fulbright Masters Scholarship

University of New Haven

CT, USA

Graduate Certificate in Computer Programming

July 2012

U.S. Fulbright Masters Scholarship

Al-Nahrain University

Baghdad, Iraq

Master of Science in Computer Engineering

March 2006

Grade: 73.455 %

Thesis title: 'Development of 1D Barcode Reader Software Tool'

Iraqi Qualified Students Program

Al-Nahrain University

Baghdad, Iraq

Bachelor of Science in Computer Engineering Project title: 'PC-based Simple Robotic System' September 2002 Grade: 74.450 %

Ranked the 3rd out of 16

AWARDS & MEMBERSHIP

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

MOOC (Online Learning)

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

Curriculum Vitae Ali Al-Bayaty

PUBLICATIONS

Books:

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/

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:

• 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, 2018, ch. 3, pp 71-102, to be printed.

Journals:

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

- A. Al-Bayaty, C. Martinez, "CLIP 4 Robotics: A Click-Based Programming Language," in International Conference Proceedings on Human-Computer Interaction 2018, Las Vegas, Nevada, Jul. 2018, Vol 852. Springer.
- A. Hussein, A. AlZubaidi, A. Al-Bayaty, and Q. Habash, "IoT Real-Time Biometric Authentication System Based on ECG DCT feature extraction," in 2018 Second Al-Sadiq International Conference on Multidisciplinary in IT and Communication Science and Applications, Baghdad, Iraq, Jan. 2018.

Source-codes:

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

Curriculum Vitae Ali Al-Bayaty

SKILLS

 Advanced experience in MS Windows Servers (deploying & networking). • Moderate experience in MS SCCM (System Center Configuration Manager) server. Advanced experience in remote access software (Exceed X, TeamViewer, and Operating RealVNC Connect). Systems Advanced knowledge in VMware and Citrix (XenApp/XenDesktop) platforms. Practical level of experience in deploying and administering LAMP-based servers: WordPress, Apache, DNS, DHCP, FTP/SFTP, SMTP, SSH, AFP/NFS/SMB, and NAS. Practical experience in Cisco (small/medium business routers/switches) and MikroTik (RouterOS/SwitchOS/AP) products. Networking Advanced experience in Synology DS+ (NAS) platforms. Systems • Moderate experience in Juniper (firewall) and Big-IP F5 (load balancer) devices. Advanced academic knowledge of the OSI model, TCP/IP, and security protocols. • ZTE systems (MSS, PDSN, and Zsmart billing). Telecom Alcatel-Lucent product (ngHLR). Asterisk-based VoIP platforms. • General: C/C++, Java, and MATLAB. • Scripting: Bash, Python, JavaScript, and jQuery. **Programming** • Database: SQL (MariaDB) and SugarCRM/SuiteCRM. Languages • Web Dev: WordPress CMS (PHP/HTML/CSS/JS). • Mobile: Basic knowledge in Android Studio and SDK tools. • Programming: Low-level C and VHDL. Embedded • Boards: Arduino, PIC microcontrollers, FPGA, and Xilinx SoC. Systems • Protocols: SPI and I2C. LEGO Mindstorm NXT.

Robotics

- Fischertechnik educational kits.
- Basic knowledge in NAO robots using Python scripting.

PROFESSIONAL EXPERIENCE

IRIS (Integrated Refugee & Immigrant Services) Organization

CT, USA

IT Coordinator

(10/2015 – Present)

- Implemented and deployed Web, DNS, DHCP, and Email servers using LAMP-based platforms.
- Maintained Synology NAS—DiskStation and its securities and policies.
- Assured the security of the overall system and its related servers from any vulnerabilities and threats using WAF and customized ACLs.
- Configured whole networking entities properly to match any future office(s) expansion.
- Designed and managed the Wi-Fi networks for IRIS staff, interns, and clients to be used separately to access specified resources and functionalities.
- Installed wireless security cameras with remotely monitoring capability.
- Integrated IRIS clients' files to the unified on-the-cloud web-based database.
- Enhanced IRIS website using WordPress platform using PHP, HTML/CSS/JavaScript, and jQuery.

Curriculum Vitae Ali Al-Bayaty

Developed Android software, called AGIR (Assistant Guide for Immigrant & Refugee), for IRIS clients

- Designed and implemented a web portal for IRIS co-sponsors to exchange private data securely.
- Deployed internal Email/SMTP server to be used by IRIS staff and other healthcare institutions to
 privately exchange emails, clients' health/clinical information, and other privacy-related documents
 according to the HIPAA software-compliance.
- Managed and administrated the on-the-cloud hosted VoIP server.
- Deployed IT Ticketing Server for posting and monitoring technical problems/inquiries from IRIS staff and interns.
- Currently, programming and configuring the all-in-one database for refugees and immigrants of different IRIS departments into one unified access platform using LAMP-based server.

Dynamic Measurement Consultants (DMC), LLC

Hamden, CT

Accelerometer Board Developer (Intern, 480 hrs)

(7/2012 - 9/2012)

- Used PIC24F microcontroller due to its robust controlling purposes for such project.
- Programmed the accelerometer board for a reliable and fast data acquisition rate.
- Verified the reliable data conversion using 12-bit ADC chipset.
- Verified the fast data transferring to the host using USB 2.0 interface.

ZTE Corporation Baghdad, Iraq

Telecom Engineer

(2/2005 - 9/2010)

- Configured and administrated the Zsmart billing systems (AIX/Oracle servers) in the three provinces: Baghdad, Najaf, and Nasiriyah.
- Designed and managed the ZXR10 (ZTE switches and routers) infrastructure for the overall Zsmart billing systems in the three mentioned-above provinces.
- Designed the SDH/STM layouts for Access Networks (MSAN and MSAG) project, in Nasiriya.
- Chief of Engineers for CDMA2000 FuratPhone Telecom project, in Nasiriya.
- Training Manager for ZTE products (MSS, PDSN, and Zsmart billing system) at FuratPhone Telecom, in Nasiriya.
- Installed, configured, and maintained the MSS and PDSN systems for CDMA2000 Najaf City project.

PROFESSIONAL TRAINING

For more information, please check **https://albayaty.me/roadmap/** under the *Professional Training* section.

SOFTWARE ACHIEVEMENT

For more information, please check https://albayaty.me/roadmap/ under the Software Achievement section.

References available upon request ...