

Curriculum vitae

Personal Information	
Name	Dr. Ahmed Ali Otoom, PMP, PMI-PBA الدكتور احمد علي فلاح عتوم
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Scopus	https://www.scopus.com/authid/detail.uri?authorId=57189026995





SUMMARY



Computer Science
(Excellent)



Computer Science
(Excellent)



Info. Tech. Mgmt.
(Excellent)



Accreditation and
Quality Assurance commission for
Higher education Institutions

Information Security
and Web Technology



Computer Science
(Excellent)



25+ Years of
Experience



16 Journal and
Conference papers



30+ University Courses
Taught



Project
Management
Professional



Professional in
Business Analysis



Cyber Security
Club



43+ Training Courses

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1 Academic Qualification

Degree	Major	Awarding University	Duration		Country	Rating
			From	Year of Awarding		
Ph.D	Computer Science (CS)	Amman Arab University	2003	2007	Jordan	Excellent (4.0/4.0)
M.S.	Computer Science (CS)	Naval Postgraduate School, CA	1997	2000	USA	Excellent (3.88/4.0)
M.S.	Information Technology Management	Naval Postgraduate School, CA	1997	2000	USA	Excellent (3.88/4.0)
B.Sc.	Computer Science(CS)	Mu'tah University	1988	1992	Jordan	Excellent (89.25/100)
Tawjihe	Science Brach	Jerash Secondary School	1987	1988	Jordan	Excellent (95.1/100)

2 Academic Experience

Duration	University	Position / Main Duties
2023 - Now	Applied Science Private University (ASU)	Assist Professor/ Software Engineering Department
2021- 2023	Irbid National University (INU)	<p>Head of Cyber Security Department Assistant Professor</p> <ul style="list-style-type: none"> • Leads the Department in the articulation and pursuit of the Goals of the Department, College, and University. • Coordinates the Academic Affairs of the Department to Establish an Outstanding Educational Program • Creates an Effective Working Environment for All Personnel within the Department • Effectively Assesses and Addresses Student Needs • Monitors and Manages the Financial Operations of the Department • Communicates Effectively with Internal and External Constituencies • Encourages Scholarly and Creative Activities and Advocates Service to the University and the Community • Responds to Additional Requests or Assignments from the Dean
2012-2016 (part time)	Princess Sumaya University for Technology(PS UT).	<p>Assistant professor</p> <ul style="list-style-type: none"> • I have co-advised several master's students majoring in Information Security and Digital Criminology. • I have led a research project towards the implementation of the National Information Assurance and Cyber Security Strategy(NIACSS).
2013-2014	Faculty of Science and Information Technology/ Irbid National University(INU) , Irbid-Jordan)	<p>Assistant professor</p> <p>I have Taught several Courses</p>

2005-2009 (part time)	Al-Zytoonah University, Amman-Jordan	Lecturer I have Taught several Courses
2000-2007	Prince Feisal Technical College (PFTC). Accredited from Albalqa Applied University- Jordan	Chief of Computer Department <ul style="list-style-type: none"> • IT Manager • Network Administrator. • Information Technology Instructor for IT students.
		I have Taught several Courses

3 Professional Experience

Duration	Institution	Job Title / Main Roles and Responsibilities
2017-2020	Social Security Investment Fund (SSIF), Jordan	Director of Information Technology Department, <i>Roles and Responsibilities</i> During this period I am assigned as the director of the Information Technology Department (ITD). The ITD oversees all IT related work in the Social Security Investment Fund (SSIF). The ITD proposes policies for all IT activities. It supervises the development of systems and software solutions, provides technical support, and ensures security and protection to SSIF's IT related assets in accordance with applicable laws, regulations, policies, instructions, resolutions and directives.
2016-2017	NDA	Freelancer I have developed and managed several projects. The most important project, during this period, was the development of a project management solution for an Oil Company.
2014-2016	RJAF, Jordan	Chief of Network Department, RJAF During this period, I was assigned to oversee my department's Network which spans almost all over the country.
2011-2013	National Information Technology Center (NITC), Jordan	The General Manager's Advisor for the Implementation of E-Gov Information Strategies and Policies & PMO Manager, NITC <i>Roles and Responsibilities as an Adv</i>

		<ul style="list-style-type: none"> • Work with the GM to extract the implementation strategies from the available national strategies and policies, laws, and any other related regulations. • Align the NITC’s IT initiatives with the strategies. • Play the leadership’s keen focus on strategies implementation and sincere management of change. • Translate strategic objectives down to project level. • Assess projects risks and communicate its status. • Assign the “right” IT people to the right IT projects. • Maintain the organizational transparency and culture of honesty among involved parties. • Direct ongoing activities and implement innovative mechanisms to promote accountability. • Suggest a yearly plan cooperating with related stakeholders. • Process feedback, input, or suggested changes to the implementation plan. • Manage, monitor, facilitate coordination, and guide the underlying running projects. • Design, manage, adjust, and track the key performance indicators KPIs to projects under implementation. <p><i>Roles and Responsibilities as a PMO Manager</i></p> <ul style="list-style-type: none"> • Define and maintain the standards of processes and project management according to applicable international standards and best practices. • Strive to reduce cost through standardization. • Improve project management and deploy best practices and appropriate methodologies that are most suitable and applicable for NITC. • Be the source of documentations and metrics and assures that projects adhere to adopted standards and processes. • Review and audit individual projects to identify problems and take appropriate actions to resolve those problems. • Provide ongoing services: disseminate project status, provide training and support to help project managers execute their projects, assess and review project status, or directly manage projects if required.
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		<ul style="list-style-type: none"> • Equip project managers with the best methodologies and tools available. • Help project managers deliver high quality projects within time and budget. • Coordinate the efforts of all involved stakeholders into a consolidated database. • Update stakeholders with accurate information, maintain the plans, and produce all required types of status reports. Reports should show progress in: actions being performed, challenges encountered, and recommended updates. • Establish an appropriate system to identify: things to be tracked, tracking frequency, and how often tracking will be taken place and reported. <p><i>Achievements (2011-2013)</i></p> <ul style="list-style-type: none"> • Establish a Computer Emergency Response Team within NITC (JO-CERT) • Develop, with a team, a National Information Assurance and Cyber Security Strategy(NIACSS). • Propose an Implementation Framework(IF) for the NIACSS • Design and Develop Strategies and Policies Implementation Framework (SPIF) for NITC • Develop and establish a Project Management Office(PMO) within NITC • Deploy, Tune and Customize an Enterprise Project Management(EPM) Solution for NITC • Train NITC’s Employees to utilize the EPM Solution.
2007-2011	RJAF, Jordan	<p>Chief of Computer Branch(CCB). As a CCB, Dr. Ootom was assigned the responsibilities of a Project Lead as follows:</p> <p><i>Roles and Responsibilities (Jan 2007 - 2011)</i></p> <ul style="list-style-type: none"> • Manage project development from beginning to end. • Motivate involved employees and team members. Identify and resolve issues and conflicts within the project team. • Define project goals, scope, and deliverables with project team and stakeholders. • Develop project plans and support product documentation. • Estimate resources and participants needed in order to achieve project goals.

		<ul style="list-style-type: none"> • Project budgeting and recommend new changes when needed. • Determine and assess resource requirements and make the appropriate measures during project life cycle. • Manage project expectations with whole project team. • Manage requirements, contracts, and proposals (RFP/RFQ). • Develop and deliver Status reports, Kick meetings, Steering Committees, and presentations. • Schedule project timelines and milestones. • Manage changes proactively in project scope, timelines, identify potential risks /issues, and develop contingency plans. <p>Manage project acceptance and closing process using best practices.</p>
1992-1997	RJAF	<p>Senior System Analyst & Programmer at IT Department - Jordan. During this period Dr. Otoom played different roles. He worked as a programmer- for 2yrs, system analyst and a team leader-for 4yrs. His team has to design, develop and maintain the computerized Inventory System. During this period, Dr. Otoom showed motivation, innovation, professionalism, and maintained a continuous record of success in providing solutions to many different problems under consideration.</p> <p><i>Roles and Responsibilities (1994-1997):</i></p> <ul style="list-style-type: none"> • Feasibility study and implementation of proposed changes. • Prepare detailed flow charts and diagrams outlining systems capabilities and processes. • Work with application development lifecycle methodologies, such as the SDLC, incremental or spiral development. Analyze and evaluate present or proposed business procedures or problems to meet business needs and compliance requirements. • Communicate complex systems issues and solutions to teams. • Writing and maintaining the required system documentation, code libraries and creating help and user manuals documents for end users. <p><i>Roles and Responsibilities (1992-1994)</i></p> <ul style="list-style-type: none"> • Developing code and implement solutions. • Unit testing, system integration testing and user acceptance testing. • Requirement gathering and analyzing. <p>Flowcharts and system diagrams</p>

4 Professional Certificates

#	Certificate	Date	Institution
1	Project Management Professional (PMP)	June 14, 2017 – Now	Project Management Institute
2	PMI Professional in Business Analysis (PMI-PBA)	November 29, 2018 - Now	Project Management Institute

5 Training Courses

#	Course	Organizer	Date
Professional Foreign Training			
5	Public Service Excellence for Leaders in Jordan Programme	Supported by Temasek Foundation, Organised by Civil Service College, Singapore	from January 2018- November 2019
4	Study Visit on Public Service Excellence For Leaders in Jordan Programme	Temasek, Foundation International & Civil Service College, Singapore	1-5 July 2019
3	Mils Security Encryption Workshop	Mils Electronic, Austria	2012
2	Cyber Security and Information Assurance	Detica-London, UK	2010
1	TALON ECCM Pseudorandom Number Generator	Rockwell Collins, IA, USA	2003
Professional Online Training			
2	Verified Certificate of Completion, 1 Million Jordanian Coders Initiative, Data Analysis Track	UDACITY,	August 2020
1	Verified Certificate of Participation, 1 Million Jordanian Coders Initiative, Data Analysis Track	UDACITY	July 2020
Professional Local Training			
36	Academic development for faculty members	INU, Irbid	18-19/10/2022

35	E-Learning Integration Workshop for 2022	INU, Irbid	28-2-2022 – 1-3-2022
34	Certificate in Information Security Management Principles (CISMP)	KADDB Cyber Security Academy, Amman	9/2/2020 – 13/2/2020, 40 hrs
33	SharePoint 2016 Business Intelligence	ORIGIN Training and Technical Consultancy, Amman	25/9/2019 – 3/10/2019, 25 hrs
32	Advance Technologies of SharePoint 2016	ORIGIN Training and Technical Consultancy, Amman	18/9/2019-24/9/2019, 18 hrs
31	Microsoft SharePoint Server 2016 for the Site Owner/ Power User	ORIGIN Training and Technical Consultancy, Amman	04/9/2019 – 17/9/2019, 25 hrs
30	Planning and Administering SharePoint 2016	ORIGIN Training and Technical Consultancy, Amman	25/8/2019 – 03/9/2019, 25 hrs
29	ITIL Foundation V3	General Computers & Electronics Co. (GCE), Amman	22/7/2018-26/7/2018, 20hrs.
28	Professional in Business Analysis (PMI-PBA)	UT Consultation, Amman	13/8/2017-24/8/2017, 35hrs
27	Institutional Excellence Workshop	SSIF, Amman	19/8/2017, 3 hrs
26	CCNA (Cisco Certified Network Associate)	New Horizon, Amman	2014, 60 hrs
25	Information Security Workshop	Fortinet; Amman	2013
	ITU IMPACT Cyber Security Drill	NITC, Amman	15-17July, 2012
24	Mastering Requirements Management with Use Cases	NewTek Solutions-IBM, Amman	2010
23	Essentials of Test Management with IBM Rational Quality Manager V2.0	NewTek Solutions-IBM, Amman	2010
22	Essentials of IBM Functional Tester, Java Scripting	NewTek Solutions-IBM, Amman	2010

21	Essentials of Manual Testing with IBM Rational Quality Manager V2.0	NewTek Solutions-IBM, Amman	2010
20	OracleAS Portal 10g: Build Portlets with PL/SQL Ed 1	Oracle University	2010
19	OracleAS Portal 10g R2: Build Corporate Portals Ed1	Oracle University	2010
18	Oracle Database 10g: Program with PL/SQL Ed3	Oracle University	2010
17	Oracle Database 10g: Introduction to SQL Ed3	Oracle University	2010
16	Oracle PL/SQL Portal Developer	CompuBase	2010
15	Microsoft ASP. NET	Microsoft, Jordan	2009
14	Microsoft SQL SERVER 2008	Microsoft, Jordan	2009
12	Project Management Skills	Amman, Jordan	2008
11	Hands-on VB.NET 3.0 Development using Visual Studio.NET 2008	Microsoft and SoftAct, Amman, Jordan	2008
10	AUTOCAD R14	Queen Noor Civil Aviation Authority, Amman, Jordan	2003
9	ORACLE Programming	Al'Albayt University, Almafraaq, Jordan	2001
8	VBA For Microsoft Office (VBA	Everest Computer and Management Company. Amman, Jordan	2001
7	Active Server Pages (ASP).	Everest Computer and Management Company. Amman, Jordan	2001
6	LANs and NOVELL	RJAF, Amman, Jordan	1996
5	Database Management "LOTUS NOTES".	RJAF, Amman, Jordan	1996
4	ORACLE	RJAF, Amman, Jordan	1996
3	English Language	RJAF, Amman, Jordan	1995
2	Programming with COBOL	RJAF, Amman, Jordan	1993
1	MCP	RJAF, Amman, Jordan	1992

6 Publications

#	Paper Title	Journal	ISSN	Vol. Issue	Year	Field
13	Prevention of Website SQL Injection Using a New Query Comparison and Encryption Algorithm	International Journal of Intelligent Systems and Applications in Engineering	ISSN:2147-6799	VOL. 11 NO. 1 (2023) 2 28-238	2023	Cyber Security
12	A Technical Review of SQL Injection Tools and Methods:A Case Study of SQLMap	International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING	ISSN:2147-6799	IJISAE, 2022, 10(3), 75–85	2022	Cyber Security
11	Challenges of Software Requirements Quality Assurance and Validation: A Systematic Literature Review	IEEE Access	doi: 10.1109/ACCESS.2021.3117989	vol. 9, pp. 137613-137634, 2021	2021	Software Engineering
10	Holistic Cyber Security Implementation Frameworks: A Case Study of Jordan	International Journal of Information, Business and Management	ISSN 2218-046X (Online)	Vol. 9, No.1, 2017	2017	Cyber Security
9	A Classification Scheme for Cybersecurity Models	International Journal of Security and Applications	ISSN: 1738-9976 http://dx.doi.org/10.14257/ijasia.2017.11.1.10	Vol. 11, No. 1 (2017), pp.109-120	2017	Cyber Security
8	Effective belief network for cyber security frameworks	International Journal of Security and Applications	ISSN: 1738-9976 IJSIA http://dx.doi.org/10.14257/ijasia.2016.10.4.21	Vol. 10, No. 4 (2016), pp.221-228	2016	Cyber Security
7	Holistic performance model for cyber security implementation frameworks	International Journal of Security and Applications	1738-9976 IJSIA http://dx.doi.org/10.14257/ijasia.2016.10.3.10	Vol. 10, No. 3 (2016), pp.111-120	2016	Cyber Security
6	A comprehensive comparative study of word and sentence similarity measures	International Journal of Computer		135(1): 10-17,	2016	Software Quality

		Applications, Published by Foundation of Computer Science (FCS),		NY, USA.		
5	Mining software quality from software reviews: research trends and open issues	International Journal of Computer Trends and Technology (IJCTT) Published by Seventh Sense Research Group.	ISSN:223 1-2803.	V31(2): 74-83, January 2016.	2016	Software Quality
4	Efficient Hybrid Semantic Text Similarity using Wordnet and a Corpus	(IJACSA) International Journal of Advanced Computer Science and Applications,	ISSN: 2156- 5570 (Online) 10.14569/is sn.2156- 5570	Vol. 7, No. 9, 2016	2016	Software Engineer ing
3	A holistic cyber security implementation framework	Information Management & Computer Security, Emerald Group Publishing Limited	https://doi.o rg/10.1108/ IMCS-02- 2013-0014	Vol. 22 No. 3, 2014 pp. 251- 264	2014	Cyber Security
2	An implementation framework (IF) for the national information assurance and cyber security strategy (NIACSS) of Jordan	The International Arab Journal of Information Technology,	http://ww w.ccis2k. org/iajit/P DF/vol.1 0,no.4/48 42.pdf	Vol. 10, No. 4, July 2013	2013	Cyber Security
1	A Novel Run- Time Memory Leak Detection and Recovery (MLDR) Using Aging in Physical Memory Space	<i>IJCNS)</i> <i>International Journal of Computer and Network Security</i>		Pages 52-57, Vol 2., No 5.	2010	Operatin g System

7 Conferences

#	Name	Organization	Date	Participation	Country	Field
3	SMS Enterprise Solutions Summit	Scientific & Medical Supplies Co. (SMS)	29/9/2017-3/10/2017	Attendance	Cyprus	Information Technology
2	A Proposed Implementation Framework for the National Information Assurance and Cyber Security Strategy	The 2nd Arab Conference on Security and Protection in Cyberspace, Jordan University	November 21-23, 2011	Participate	Jordan	Cyber Security
1	Jordan's Approach to CS&IA	The 11th MENOGR IPE NCC conference	7th-8th OCT, 2012	Participate	Amman, Jordan	Cyber Security

8 Ph.D. Dissertation

Title: A Novel Multi-Layer Virtual Memory System to Solve Memory Leak Problem

Abstract: Memory leak problem is one of the major causes of software failures. Current approaches for solving memory leak problem are not thorough; they either detect memory leak in development environments using source code, re-linking, or recompilation or they only remove unreachable objects in run-time garbage-collected environments. These approaches do not provide a complete run-time solution.

This dissertation provides two new approaches for memory leak detection and recovery in addition to a novel approach for dynamic memory management. The first is memory leak detection (MLD) algorithm. This algorithm reflects both of the physical and virtual behavior of memory allocation and benefits from the hardware support available for tracking physical pages in real memory in order to detect leak in virtual address space. The latter is a memory leak detection and recovery (MLDR) algorithm based on a novel approach for dynamic memory management, a multi-layer virtual memory system (ML-VMS). The ML-VMS reorganizes the currently used dynamic memory management and dynamic memory allocation mechanisms in order to solve or overcome the problem of memory leak

The MLD uses a conservative approach to remove unreachable objects and save address space. It delays possible application crashes due to the lack of virtual memory, but it can not solve the problem of stale objects. The MLDR provides a thorough run-time solution. It handles the problem of false positives, false negatives, and prevents target applications from crash due to the lack of virtual memory given a well-tuned parameters and that a target application can tolerate an additional overhead. Both approaches are trace-driven simulated in order to provide a proof of concept and show the algorithms' validity. Our approach is compared to some current approaches for memory leak detection and recovery and is shown

how it outperforms these approaches in providing a complete run-time solution. The MLDR is recommended for mission critical applications that have to live for a long time and can tolerate a controllable overhead cost.

Key words: multi-layer virtual memory system, memory leak detection, memory leak recovery, virtual memory, memory aging, and dynamic memory allocation.

9 Master Thesis

Title: Design and Implementation of a Three-tiered Web-based Inventory Ordering and Tracking System Prototype Using Java and CORBA.

Abstract: Many enterprises are still running and maintaining several operating system and platform dependent legacy applications. The variety of platforms and operating systems poses a challenge to system-wide interoperability and performance, increases the cost of maintenance, locks enterprises into certain vendors, and leads to a lack of an adequate information infrastructure which results in a waste of computer resources, manpower, and time. In this thesis, we have designed and implemented a component-based three-tiered Web-based Inventory Ordering and Tracking System (IOTS) prototype that demonstrates the technical feasibility of making an enterprise's applications both interoperable and scalable on a system composed of multiple platforms and different operating systems. The prototype uses CORBA, an industry-backed, non-proprietary, standard-based distributed architecture and Java, a high-level object-oriented language that enables enterprises to leverage the use of the Internet and benefit from the enhancements in the client/server and the decrease in the prices of desktop computers. The prototype demonstrates how to overcome the problem of the stateless nature of HTTP and build the Object Web where Java applets run on the IIOP. The prototype's source code can be tailored to some specific business requirements and enterprises having problems similar to those addressed may benefit from this research and adopt, its development methodology.

10 Research Interest

- Cyber Security
- Software Requirement and Software Engineering
- Information Security Management

11 University Courses Taught

1. Advanced Cryptography (**Master**)
2. Data Encryption
3. Ethical Hacking
4. Data Security and Privacy
5. Cyber Security Graduation Project
6. Network and Data Communication
7. Network Control and Documentation
8. Secure Data Communication Protocols
9. C# Object Oriented Programming
10. Data Structures with C++

11. Artificial Intelligence
12. Programming with VB.NET
13. Logic Design
14. Database Management
15. C++ Programming
16. File Processing with C++ language
17. Data Structure with C++ language
18. Computer Skills
19. Introduction to Database/1
20. Introduction to DB Lab(1)
21. Introduction to Database/2
22. Introduction to DB Lab(2)
23. Programming Visual Basic/1
24. Programming Visual Basic/2
25. Introduction to the Internet
26. Creating and Managing Web sites.(This course uses JavaScript, VBScript, and Java)
27. Server Side Programming with PERL and CGI
28. Office Programming (VBA)
29. Introduction to Networks
30. Network Administration
31. Graduation Project
32. Java

12 Professional Memberships

Local:

- Head of the Cyber Security Master Program committee, Faculty of Information Science and Information Technology, Irbid University, for the academic year 2021-2022. This program aims to develop a new master program for Cyber security at INU, Jordan.
- Head of the Digital Forensics Bachelor Program committee, Faculty of Information Science and Information Technology, Irbid University, for the academic year 2021-2022. This program aims to develop a new bachelor program for Digital Forensics at INU, Jordan.
- Head of the ABET Committee that aims to establish ABET road map for the IT programs at INU for the academic years 2021-2022
- Member of the University Council Committee, INU, for the academic year 2021-2022
- Member of the Faculty Council Committee, Faculty of Science and Information Technology, INU, for many academic years from 20221-now.

- Member of the Department Council Committee, Faculty of Science and Information Technology, INU, for many academic years from 20221-now.

Associations:

- Project Management Institute (PMI), June 15, 2016 – Now
- PMI Jordan Chapter, June 15, 2016 – Now

13 Skills

• Technical Skills

- **Programming Languages:** C++, Java, various ORACLE Dev tools/packages, ASP.NET, VB.NET, CORBA, Visual Basic, COBOL, PERL and CGI, HTML, JavaScript, VBScript, PHP, and Active Server Pages (ASP).
- **Databases:** SQL SERVER 2008, SQL, MS Access, Oracle, and MYSQL.
- **Platforms:** UNIX, Linux, Windows 11/10/8/7/95/98/2000/XP/NT.
- **Networks:** Planning, implementing and administration of LANs and WANs.
- **Information Systems.** Strong knowledge of Software Engineering techniques and project management methodologies being used in building large Information Systems.
- **Web Development:** Have interest in E-Commerce, Server-side programming, Web development and management

• Soft and Management Skills

Creative problem solving and decision making, strong leadership ability, ability to develop people, excellent communication skills, interpersonal skills, time management skills, integration management skills, scope management skills, cost management skills, quality management skills, human resource management skills, risk management skills, procurement management skills, strong work ethic, self-confidence, flexibility/adaptability, working under stress.

14 Languages

- **Arabic:** Native Speaker
- **English:** Proficient (Reading, Writing, Speaking)

15 Post Graduate Supervision

#	Title	University & Date	Supervisee	Field
7	Rawan Massalha, M.Sc, "Critical National Infrastructure Protection-Implementation Framework"	Princess Sumaya University for Technology, 2014-2017	Co-supervisor with Dr.Jalal Atoum	Cyber Security
6	Ayat Hannoun, M.Sc., "National Information Incident Management Process",	Princess Sumaya University for Technology, 2014-2016	Co-supervisor with Dr. Arafat Awajan	Cyber Security
5	Odai Shalabi, M.SC., "National Privacy Implementation Framework"	Princess Sumaya University for Technology, 2012-2014	Co-supervisor with Dr. Arafat Awajan	Cyber Security
4	Mohammad Al Nizami, M.Sc., "Information Security Awareness Framework for Jordan"	Princess Sumaya University for Technology, 2012-2014	Co-supervisor with Dr. Sufyan Almajali	Cyber Security
3	Usama Mezil, M.Sc., "National Policies and Standards Implementation Framework"	Princess Sumaya University for Technology, 2012-14	Co-supervisor with Dr. Sufyan Almajali	Cyber Security
2	Malak Al Rawashdeh, M.Sc., "Risk Management Implementation Framework for Jordan",	Princess Sumaya University for Technology, 2012-2014	Co-supervisor with Dr. Sufyan Almajali	Cyber Security
1	Issa Atoum, M.Sc., " A Holistic Cyber Security Strategy Implementation Framework",	Philadelphia University, Graduated June 2012	Co-supervisor with Dr. Amer Abu Ali	Cyber Security

16 Post Graduate Examiner

#	Title	Student	University	Field
1	Strong Password Using Keystroke Dynamics	Asma Salem	University of Jordan	Cyber Security

17 Honors / Awards

- King Hussein Award for the First Student in Tactics, Mu'tah University, 1992

18 Voluntary Work

- Supervisor and Head of committee for the Cyber Security Club, Faculty of Information Science and Information Technology, Irbid National University. This club aims to motivate students to learn cyber security and ethical hacking via organizing learning sessions, training courses, seminars, and ethical hacking championships for the academic year 2021/2022-now
- Technical Intelligence (volunteer with Injaz. Academic year 2021/2022)

19 References

- Dr. Sufayn Almajali, Princess Sumaya University for Technology (PSUT)
 - [email: s.almajali@psut.edu.jo](mailto:s.almajali@psut.edu.jo), Tel: [+962 799301388](tel:+962799301388)
- Dr. Mohammed Ababneh, Princess Sumaya University for Technology(PSUT)
 - Email: mababneh@gmail.com, Tel: [+962 799391356](tel:+962799391356)
- [Dr. Mohammad Mhawish, Irbid National University](#)
 - Email: m.mhawish@inu.edu.jo, Tel : [+962 795361610](tel:+962795361610)