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Statement of Interest and skills

After the completion of my undergraduate study, as an Electronics and Communications Engineer, I worked for 4 years within the ministry of education in Palestine. In the first two years I was employed as a computer teacher for the secondary industrial school (teaching electronics, digital circuits, computer circuitry and architecture and operating systems in addition to training students in assembling and maintaining PCs) and the last two years as a supervisor for the Technical and Vocational Education and Training (TVET) schools where I was responsible for preparing projects' drafts, monitoring their developments and preparing TVET bids and following their deliveries. That experience helped me realize the value for improvement in my qualifications. I obtained the DAAD scholarship to study Electronic Systems and Engineering Management at Bolton Institute of Higher Education in the UK. This master course merged between studying advanced electronic systems and control (Microcontrollers, signal processing, fuzzy control, neural networks) and engineering management. My master project was about innovation management methods and tools for which I received the 2003 innovation prize for developing an innovation studio in Soest Germany. My achievements in the master studies enabled me to continue working for Fachhochschule Südwestfalen as a scientific researcher and manager for INNOPSE project (an EU research project with 10 partners from 6 EU countries and a budget of 2.5 Million Euro) where I was responsible for the project management reports, providing case studies for the partners on implementing innovation management methods and tools in order to facilitate the use of these methods and tools in their work packages deliveries, as well as finishing the technological implementation plan (an EU requirement). I also worked on preparing new EU funded projects proposals . Concurrently I was teaching IT introduction and innovation management courses for the visiting Swiss German University students who were studying Business Informatics.

In my bachelor and master studies I earned solid knowledge, with excellent grades, about electronics and computer engineering in subjects like: digital electronics, circuit analysis, control and power electronics, microcontroller systems and applications, computer networks and architecture, and signal processing. My bachelor project (in 1989) was the design of a computer

that executes 32 commands (e.g. ADD, SUB, MOVE, shift left/right, etc.). I also have practical experience in programming microcontrollers (TMS370C742) using the C language.

My PhD research provided me with deeper knowledge in innovation management, problem solving, and project management and it enabled me to teach innovation management subjects.

My education in electronics and computer knowledge on the one hand and in innovation management on the other in combination with my experience in teaching and computer assembly and repair and in project management enabled me with the following major skills:

- I can teach subjects and carry out the job of an **IT Manager**, I can also work as **project manager**. I have sound Knowledge in electronic systems, computer circuitry and microcontroller applications and have a practical experience in teaching (Networking in Java, Artificial Intelligence, Computer circuitry, digital electronics, IT introduction, Innovation Management). I have practical experience in **computer assembly, repair and maintenance, operating systems installations, and excellent MS Office applications skills**.
- I can implement the **TRIZ methodology** to solve problems and forecast customer demands and technologies and I can also train engineers on this methodology.
- Practical **experience in project management** and communication with multicultural consortiums. (Experience gained from managing the INNOPSE project), this also means that I have been exposed to **international travel** and business trips.
- Innovation Management methods and tools literate: I have literature understanding and experience from practical applications for various innovation management methods and tools from which are: TRIZ, BSC, Morphological Box, House of Quality (Quality Function Deployment), Patterns of evolution.
- Knowledge in LAN/WAN architecture, **ISO/OSI**, protocols (**TCP/IP-Protocol-Suite**)
- Able to program using:
 - **Labview; MatLab; Dymola** (control software);
 - **C Language and**
 - **Java.**
- Posses **excellent presentation skills** (i.e. using Power Point) (experience gained from teaching and participation in international conferences)
- Can work **independently** and with **teams**, can live up to **deadlines** and withstand their **pressure**, and have experience in international travelling
- Have solid **experience in documentation** (published 10 papers, 10 books.)

Major ambitions

- Develop proprietary innovation management interactive software for problem solving and technology forecasting that is based on the TRIZ methodology.
- Develop an innovation studio or centre of excellence where it will provide methods and tools for innovation and problem solving, follow up on patents and IP and extract new principles for innovation and problem solving and provide innovation consultancy.



Curriculum Vitae

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Personal Information

Marital status: Married.

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Nationality: German

Mobile: 017665856524

Birth Date: May,28 1967

Place of Birth: Biddya – West Bank, Palestine

Driver license (Class B) / Car available

Ambition

Develop proprietary innovation management interactive software for problem solving and technology forecasting that is based on the TRIZ methodology.

Develop an innovation studio or centre of excellence where it will provide methods and tools for innovation and problem solving, follow up on patents and IP and extract new principles for innovation and problem solving and provide innovation consultancy.

To be a member of an engineering faculty that is actively collaborating with industry and involved in industrial projects.

Education

The University of Bolton – UK

PhD

Thesis Title: TRIZ Innovation Management Approach for Problem Definition and Product Service Systems

April, 2003 –
May 2006

Oct., 2001-
March, 2003

Bolton Institute – UK In Cooperation with South Westphalia University of Applied Sciences - Germany

Master of Science in Electronic Systems and Engineering Mngement

(with Distinction)

“DAAD Scholarship”

June, 1986 –
May, 1990

University of the East - Kalaookan city - Metro Manila, Philippines

Bachelor of Science in Electronics and Communication Engineering. (With the emphasis on computer and digital circuitry).

Languages

Reading
Writing

Arabic
Fluent
Fluent

English
Fluent
Fluent

German
Very Good
Good

Work experience

Jan. 2008 – Dec.
2009 -
Present

BitRayTech (www.bitraytech.de)

General Manager (Owner since Dec. 2009)

- Computer Networks installation and maintenance
- PC and Mobile sales and repair
- Customer service

Feb. 2010 –
June 2010

AIQuds Open University (visiting tutor), I lectured the following subjects:

- Networking in Java
- Artificial Intelligence
- Introduction to Computer

April, 2003 –
Nov., 2005

South Westphalia University of Applied Sciences, Soest – Germany

Scientefic Researcher

- Project Manager for a ‘36 months’ EU project “INNOPSE”.
- Implementing innovation management methods and tools to solve industrial problems.

	<ul style="list-style-type: none"> ▪ Provide innovation management assistance to the master course students. ▪ Preparation of proposals for new EU projects. ▪ Teaching IT and innovation management courses for the Business administration with informatics undergraduate student.
Feb., 2002 to March, 2003	South Westphalia University of Applied Sciences, Soest – Germany Part time researcher; Running the Innovation Studio, installing and managing the Video Conferencing Studio. Part of the INNOPSE project.
Jan., 2001 to Aug., 2001	Ministry of Education – Technical and Vocational Education and Training (TVET) Ramalla – West Bank, Palestine Head of Monitoring and Implementation Division – (TVET) <ul style="list-style-type: none"> ▪ Visualize (TVET) development projects. ▪ Conduct survey studies for new TVET fields. ▪ Create and implement relationships between the TVET system and the local businesses and industry. ▪ Prepare the Ministry’s TVET projects drafts. ▪ Execute the TVET’s Five Year Plan activities. ▪ Place TVET tenders process its offers and follow up deliveries.
July, 2000 to Jan., 2001	Ministry of Education – (TVET) - Ramalla – West Bank, Palestine Technical and Vocational Education and Training supervisor <ul style="list-style-type: none"> ▪ Oversee the teaching process at the TVET schools. ▪ Manage the supervision of the TVET schools. ▪ Devise training courses for the TVET school’s staff. ▪ Manage the preparatory of Tawjihi Exam.
August, 1998 to July, 2000	Ministry of Education- Vocational Schools Deir Debwan Secondary Industrial School Deir Debwan, Palestine Computer Instructor and school vice - principal <ul style="list-style-type: none"> ▪ Teaching courses of electronics and computer electronics. ▪ Teaching DOS and Windows (3.11, 95, 98) and LAN. ▪ Running the daily school life of the students in which they receive counselling and are given the appropriate educational support.
June, 1996 – Aug., 2001	Computers Technology Center Beddia, Palestine General Manager <ul style="list-style-type: none"> ▪ Sell, Maintain and repair telephone sets, Computers and their accessories
May, 1997 – June, 1998	Palestinian Secondary Academic School (Al-Urdonieh) - Al-Bireh, Palestine School Principal <ul style="list-style-type: none"> ▪ Preparing the student’s and teacher’s schedules. ▪ Overseeing the implementation of the school courses. ▪ Running the school’s day to day activity and students’ affairs councillor. ▪ Coordinating with the laws and instructions of the ministry of education and answering their mail.
Nov., 1996 – May, 1997	Palestinian Secondary Academic School - Al-Bireh, Palestine School Teacher <ul style="list-style-type: none"> ▪ Running the school’s computer lab. ▪ A math teacher of an American curriculum.
June, 1991 – Nov., 1995	I was in the United States in which I worked in different free jobs
Awards	July, 2003 received the Innovation Prize from South Westphalia University of Applied Sciences and the city of Soest for the achievements in the master project (Innovation Studio). See http://www.innopreis.vsi-soest.de/
Extracurricular	I prepared four booklets on Microsoft office application (in 1998) :

activities

1. Windows 95

2. WinWord 97

3. Access 97

4. Excel 97

Professional memberships**A member of the Jordan Engineers Association****Accreditations and licenses**

Accredit from "the Jordanian and the Palestinian" Ministries of Higher Education as an Electronics and Communication Engineer.

Other Knowledge**Operating Systems:** All Windows versions (installation and running) plus excellent Internet Skills**Microcontrollers:** TMS370C742Knowledge in LAN/WAN architecture, **ISO/OSI**, protocols (**TCP/IP**-Protocol-Suite)**Software:****Dymola Software** (Engineering control simulation software)**C Language****Java****HTML:** Programing (also using **Dreamweaver** software)**MatLab** (Engineering simulation and computational software including Simulink)**LabView Software** (Engineering simulation, control and computational software)**Video Conferencing Systems:** Multi-Point, ISDN, IP 'Sony Contact 1600'**Problem solving methods:** TRIZ, BSC, QFD, Morphological Box, DoE.**Project Management:** MS project****eager, willing and Quick to learn new stuff******References:**

- 1- Prof. Dr. Henrik Janzen
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Course Director BBA
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South Westphalia University of Applied Sciences
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Books

• **Books (In Arabic language):**

1. Abdalla, Ahmad Abdelkarim. 2020. (**Arrabt Alqawim fee Annazthm Alhakim**) (الربط القويم في النظم الحكيم). Deposit Number.2020 /6 /1625 (Jordan National Library)
2. Abdalla, Ahmad Abdelkarim. 2020. **The Seventh Sense. Book of the Free: The Authority of the Mind.** Deposit Number: 493/2/2020 (Jordanien National Library)
3. Abdalla, Ahmad Abdelkarim. 2019 **The Seventh Sense. Book of Masters and Slaves.** Deposit Nummer: 1186/3/2019 (Jordanien National Library)
4. Abdalla, Ahmad Abdelkarim. 2018. **Numbers in Mathematics from Zero to Infinity.** Deposit Nummer: 1081/3/2018 (Jordanien National Library)
5. Abdalla, Ahmad Abdelkarim. 2016. **Spanks of Goliath Grandchildren.** Deposit Nummer: 2633/6/2016 (Jordanien National Library)
6. Abdalla, Ahmad Abdelkarim. 2015. **Beddiya, Small Palestine. A Rose from Iron.** Deposit Nummer: 2284/5/2019 (Jordanien National Library)
7. Abdalla, Ahmad Abdelkarim. 2012. **Science of Defining Problems.** Deposit Nummer: 4157/11/2012 (Jordanien National Library)
8. Abdalla, Ahmad Abdelkarim. 2012. **Engineering of product Service Systems.** Deposit Nummer: 3469/9/2019 (Jordanien National Library)

• **Books in English Language:**

9. Abdalla, Ahmad (2006). **TRIZ Innovation Management Approach for Problem Definition and Product Service Systems.** Shaker Verlag, Aachen. ISBN 3-8322-5265-7

10. B. Bitzer, A. Abdalla (2005). **Innovation Studio: Design and Development**

- In 2012 published two books in Arabic language the first one is about engineering product service systems and the second is titled 'Engineering problem definition'.
- Ahmad Abdalla, Berthold Bitzer, Danny Morton (2008). Measurement criteria of the relevance of the Innovation Management methods and tools. *International Journal of Entrepreneurship and Innovation Management (IJEIM)*. Volume 8 - Issue 2, pp. 101-119.
- Abdalla, Ahmad. 40 Inventive principles for developing Eco-efficient Product service systems: A TRIZ approach. *Journal of TRIZ in Engineering Design*. Accepted October 2006 see < <http://www.togopressllc.com/trizined/ojs/index.php>>
- Abdalla, Ahmad (2006). **TRIZ Innovation Management Approach for Problem Definition and Product Service Systems.** Shaker Verlag, Aachen. ISBN 3-8322-5265-7
- Abdalla, A. (2006). Systematic Innovation: An Evaluation of the Methodologies Implementing TRIZ. *Journal of TRIZ in Engineering Design* Vol. 2, No. 1, pp. 74-92. ISSN 1553-8354. [Online] Available:< <http://www.togopressllc.com/trizined/ojs/contents/paperpdfs/jtrizined2006v2n1p3.pdf>>
- Abdalla, A. and Zobly, S. (2006). Centrality of 'Steering Language' to problem solving: Trends of evolution case study: The development of heat induction system. *TRIZ Journal*. Feb. Issue. [Online] Available: < <http://www.triz-journal.com/archives/2006/02/06.pdf>>
- Abdalla, A., Bitzer, B., Morton, D. (2005a). Innovation management methods and tools for sustainable product service systems (With a Case Study). *TRIZ Journal*. April Issue. [Online] available: < <http://www.triz-journal.com/archives/2005/04/04.pdf>>

Publications and Conferences

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- Abdalla, A., Bitzer, B., Morton, D. (2005b). *Knowledge representation and the correlation between problem analysis and the solution knowledge domain: Research and recommendation for standards in the TRIZ methodology*. The 16th ISPIM Conference 2005 “The Role of Knowledge in Innovation Management”. Porto, Portugal 19-22 June.
 - B. Bitzer, A. Abdalla (2005). **Innovation Studio: Design and Development towards Product Service Engineering and Problem Solving**. Shaker Verlag. Aachen. ISBN: 3-8322-3614-7
 - Abdalla, A. (2004b). *Simulation services: Load behaviour lab model demonstrator for simulation services*. In proceedings of SusProNet “New Business for Old Europe” conference. Brussels, Belgium, 13 Oct.
 - Abdalla, A., Bitzer, B., Morton, D. (2004b) *Benchmarking TRIZ in the field of Product Service Systems “PSS”* IN: Proceedings of the 4th ETRIA TRIZ future conference, Florence, Italy, 3-5 Nov.
 - Abdalla, A. (2004a) Innovation management methods and tools and their relevance in meeting the determinants of innovation. *Teletronikk* special edition on Innovation Management, 2.2004
 - Abdalla, A., Bitzer, B., Morton, D. (2004a) *Measurement Criteria of the relevance of the Innovation management methods and tools* IN: Proceedings of the 15th International Society for Professional Innovation Management conference "Successfully creating innovative products and services: integrating academia, business and consulting", Oslo, 20-23 June.
 - Abdalla, A., Virk, G., Dogramadzi, S., Bitzer B., Biernatzki, R. (2004) *Innovation Management in SMEs – experience of successful European companies*, IN: Proceedings of the 15th International Society for Professional Innovation Management conference "Successfully creating innovative products and services: integrating academia, business and consulting", Oslo, 20-23 June.
 - Abdalla, A., Bitzer, B., (2003) *Innovation Studio and Exemplary Developments for Product Service Engineering “INNOPSE”* IN: Proceedings of the Sustainable Product-Service Systems ‘State of the Art’ conference, Amsterdam 5 -6 June
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Major skills

- **TRIZ expert** (experience gained through research, implementation, and publications)
- **Sound Knowledge in electronic systems, computer circuitry and microcontroller applications** (through the University studies for the BSc. And MSc., with excellent achievements)
- **Practical experience in project management** and communication with multicultural consortiums. (experience gained from managing the INNOPSE project)
- **Practical experience in teaching** (Networking in Java, Artificial Intelligence, Computer circuitry, digital electronics, HTML, IT introduction, Innovation Management)
- **Practical experience in computer assembly, repair and maintenance, operating systems installations, and excellent MS Office applications skills.**
- Knowledge in LAN/WAN architecture, **ISO/OSI**, protocols (**TCP/IP-Protocol-Suite**)
- Able to use **Labview, MatLab, Dymola** (control software)
- Able to program using **C Language** (experience gained from the Master Study when programming the TMS370C742 Microcontroller) and **Java**.
- Posses **excellent presentation skills** (i.e. using Power Point) (experience gained from teaching and participation in international conferences)
- Can work **independently** and with **teams**, can live up to **deadlines** and withstand their **pressure**, and have experience in **international travelling**
- Have solid **experience in documentation** (published 10 papers, nine books and 4 booklets about MS office applications)
- Experience in applying **innovation management methods** and tools (TRIZ, QFD, BSC, Morphological Box, Problem Solving)