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1. ***Academic Qualification***

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| **Qualification** | **Awarding University** | **Date** |
| **PhD** | **Nelsonbay University** | **29 December 2014** |
| **Master** | **The Dresden University of Technology** | **13 January 1995** |
| **Bachelor** | **The Dresden University of Technology** | **18 January 1994** |

1. ***Specialization and teaching/research interests***

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| **General Specialization** | [**Electrical/Electronic Engineering & Information Technology**](http://www.zoominfo.com/search/PersonDetail.aspx?PersonID=-774724) |
| **Specific Specialization** | **Biomedical Engineering** |
| **Teaching Interests** | **Electronic & Information Engineering** |
| **Research Interests** | **Photonics & Underwater Communications** |

1. ***Publications & Conferences***

[**Academic Engineering Researches:-**](http://faculty.ksu.edu.sa/Lahham/Publications/Publications.aspx)

**1.** (Master of Science Dissertation)

1994 – 1995 Clinic therapeutical apparatus for muscles remedy

**(**[**TU-Dresden**](http://www.et.tu-dresden.de/etit/index.php?id=484)**)**

**2.** (Main Study's Research)

1989 – 1994 Digital X-ray picture Reception for practical

Laboratory experiment **(TU-Dresden)**

**3.** (Primary expanded Study's Research), (Devices Construction), Multimeter Construction 1993

**(TU-Dresden)**.

1. ***CV***

**CURRICULUM VITAE**

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**Education:**

2003 - 2004 ***Software Technology*** ([**Technische Universität - Dresden**](http://tu-dresden.de/die_tu_dresden))

1999 – 2002 ***Mechatronic***([**TU-Dresden**](http://www.et.tu-dresden.de/etit/index.php?id=484))

1995 – 1996 ***Law and Political Science*** (**The Dresden University of Technology**)

1989 - 1995 **Electro Technique & Information Technology**;

[**The Dresden University of Technology**](http://www.et.tu-dresden.de/etit/) **/ The Federal Republic of Germany**

***Precision Technology -*** ***Biomedical Engineering***

*1995* ***second academic Grade***: - ***(Master of Science in Electrical Engineering)***

1988 - 1993 **Certification** about advanced Grade in German Language – [**Institute of German Linguistics**](http://tu-dresden.de/die_tu_dresden/fakultaeten/fakultaet_sprach_literatur_und_kulturwissenschaften) –

(The Dresden University of Technology) – **Free State of Saxony** – **The Federal Republic of Germany**

1988 - 1989 German language preparation course; **Herder Institute in Glauchau** / **Germany**

1987 - 1988 Basic of German language; [**Goethe Institute**](http://www.goethe.de/ins/jo/amm/deindex.htm) **in Amman** / **Jordan**

1975 - 1987 The **G**eneral **S**e**c**ondary **E**xamination (**GScE - Scientific Stream**)

[**Terrae Sanctae Collegium (STC)** / **Franciscan Fathers**](http://www.terrasanta.sch.jo/) in Amman - **Jordan**

*Thesis of Master* [***second academic Grade MSc****.*](http://faculty.ksu.edu.sa/Lahham/Publications/Publications.aspx)*:* 1994 – 1995 Clinic therapeutical apparatus for muscles remedy **(TU-Dresden)**

*Study's Work* [***first academic Grade BSc****.*](http://faculty.ksu.edu.sa/Lahham/Publications/Publications.aspx)*:* 1989 – 1994 Digital X-Ray picture reception for practical

Laboratory experiment **(TU-Dresden)**

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**Skills:**

1988 – 2009 **Computer Sciences with wide experience in hardware, communication skills and computer's**

**construction**, **very good experience in software**. AutoCAD and PCB-Programs such as Eagle-win,

Target 3001 V.13, Express PCB, TinaPro60GN, Tina70GN, Multisim V.10, MatLab and Proge CAD 2008

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**Experience:**

**2011 – 2015** [**Lecturer**](https://faculty.sau.edu.sa/f.allahham) at the [**Salman Bin Abdulaziz University**](https://www.sau.edu.sa/) **(**[**College of Computer Engineering and Sciences in Al-Kharj** - **KSA**](http://www.ksu.edu.sa/sites/Colleges/Arabic%20Colleges/CCES/Pages/default.aspx)**)** in branch of **Computer Engineering** (**CE**)

**2008 – 2011** [**Lecturer**](http://faculty.ksu.edu.sa/Lahham/default.aspx) at the [**King Saud University**](http://www.ksu.edu.sa/Pages/default.aspx) **(**[**College of Computer Engineering and Sciences in Al-Kharj** - **KSA**](http://www.ksu.edu.sa/sites/Colleges/Arabic%20Colleges/CCES/Pages/default.aspx)**)** in branch of **Computer Engineering** (**CE**)

2005 – 2007 [High Institute Teacher](http://www.xing.com/profile/Fouad_Lahham) in branch of Electronic & Electrical Engineering and Information Technology in

the High Institute of Albarkat (Ghat – **Higher Ministry of Education** in **Trepolis West** - **Libya**).

(As **University Teacher**)

2000 – 2004 Experience in Media Engineering (Audio & Video Technique), I worked for several Firms such as Wisi,

Loewe Opta, Kathrein, 3Com**,** P-Labor, Inntraport**,** HITC-Deutschland GmbHALCAD**,** Sitte GmbH,

**Meyer Werft** GmbH **]Ship Manufacturing Yard[** in (Pappenburg – Germany ), and **Avimedia GmbH**

in **Germany**. (As **Electronic Engineer**)

1995 - 1999 **The Modern Electronic & Trading Est. (Philips workshop)** in **Amman**.

(As **Project & Electronic Engineer**)

Klaus–Elektroanlagen in München / Bayern / **Germany**: (**Electronic Electrical Eng.**)

1992 –1993 During the university study I attended an extensive complex practical course at the **Medical Academy Hospital in Dresden** / **Free State of Saxony - Germany**. (**Bio-med. Equipments**)

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**Academic Research Interests:**

**1. Sensors and theirs Applications**

**2. Stepper Motor Controllers**

**3. Clinic therapeutically Apparatus for Muscles Remedy**

**4. Development Biomedical Diagnostically Clinic Apparatus using Ultrasound**

**Energy**

**5. Digital X-Ray Reception for Practical Laboratory Experiment**

**6. Underwater Acoustic Communication**

**7. Photonic Sciences and Technologies**

A short summery of topics presently I am dealing with to access my own research's developments and achievements are:

**1. Sensors and theirs applications:**

The basis of research is mainly semiconductors and to study the symptoms of different materials that produces several types of sensors. Sensors produce analogue signals which could be converted through an A/D-converter into digital signal driving. The digital signal could be processed by a computer, so that we are able to study the symptoms of a special sensor and how to deal with its analog signal in different aspects.

To study thoroughly most of the materials that composes a certain sensor mainly to find possibility of numerical applications.

My research strategy is to study with my aspiration obstacles of utilizing different materials and the possibility how to apply such new sensors.

Firstly to alien what sensors are presently available and what other sensors are needed to be developed, manufactured and studied.

Sensors based on an electronic circuit mainly to understand such circuits for the purpose of implication for more development and application.

I am sure it is not easy but I will overcome all difficulties to achieve success and to share the industrial and commercial business successfully.

The collaboration with other departments / Research Bodies should be opened and accepted as a team worker.

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**2. Stepper Motor Controllers:**

The controlling of stepper motors could be realized through ICs e.g. L297, L297/1 or L297D together with monolithic bridge drives such as the L298N or L293E or with discrete transistors and darlingtons. Such electronic control circuit generates four phase drive signals for two phases bipolar and four phase unipolar step motors. Through it the motor could be driven in half step, normal and full wave drive modes. The input signals, which such control circuit requires are clock, direction and mode. The phases are internally in the stepper motor controller ICs generated, which enable burden reduction possibilities on the microprocessor and the programmer.

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**3. Clinic therapeutically Apparatus for Muscles Remedy:**

An electronic circuit AD7548 (12-bit monolithic CMOS D/A converter for use with 8-bit bus microprocessors such as MC6809 microprocessor for automatic transfer of 8 + 4 bit data) equipped with analogue digital converter to control and drive a mechanical hydraulic small valve.

My research is an applying to a digital control unit whose contents are 4 MOSFET transistors bridge connected driven by AD7548 (high- or low-level), simultaneously enabling the motor to move forward and backward.

The AD7548 drives a digital signal which will be converted to an analog signal feeding the input of

2 comparators.

A feedback signal produced from the mechanical apparatus fed to the input (V ref.) of the AD7548.

An output analog pulse signal from AD7548 (I out) actuates and controls the function of the

4 MOSFET transistors. The outlet pulse signal actuates and controls the mechanic small hydraulic crank. The mechanical access movement actuates my developed clinic therapeutically apparatus. This biomedical equipment has the function of therapeutically apparatus.

The main advantage of such clinic apparatus is to help patients of a defected muscle to restore its natural size and position by the differentiation of its limited mechanic movements.

Inconsequence, the purpose is how to build an electronic circuit to drive and control a mechanical apparatus.

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**4. Development of Biomedical Diagnostically Clinic Apparatus using Ultrasound Energy:**

To my fortunate I am raised in an electronic environment workshop belongs to my father, raised to love these different instruments.

Electronics is my hobby and carrier, I am well educated through the years passed. I gained much more experience in both my education and my relation to the market. Also I educated electronics in the field of vocational applied electronics schools with more specification to microprocessor's ICs and its basic relation to computer circuits with more simplification to some circuits similar to " printed circuit board design and construct - programs " such as Target 3001 V.13, Electra, Eagle, Express PCB & SCH, Tina Demo V7 & PCB Designer V.7, Multisim V.8 and MatLab.

In addition, any further research may fertilize my attitude towards on working on the RF signal processing and how to build its energy with AM-FM modulation. This modulation which is very promising approach deserving research in time for more advances to achieve and develop various aspects to base and utilize its sharing in clinic instruments for better diagnostics to illness.

My initial experience surely will depend on going research because preliminary experiments extend experience in ultrasound pulse in frequency and amplitude.

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**5. Digital X-Ray Reception for Practical Laboratory Experiment.**

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**6. Underwater Acoustic Communication:**

Electromagnetic waves propagate in the air but such waves cannot propagate for a long distance in sea water. Acoustics provides the most obvious choice to enable communications under water.

Communication in deep water is possible but in shallow water it is limited. Our research activities should concentrate over to find possibilities to such communication between a set of underwater systems to enhance the effectiveness of such systems tremendously.

It may still seem challenges our possibilities beyond achievements remaining indispensable if communication link exist either between the remote end and the service or in shallow water, it deserve wondering how it is possible to accomplish if our interest motivated in underwater wireless communication, which is extremely difficult and necessitates dedicated system to follow.

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**7. Photonic Sciences and Technologies**

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**Teaching Interests and Teaching Fields:**

**1. Analogue Electronics**

**2. Digital Electronics**

**3. Digital Logic Design**

**4. Diagnostical and Therapeutical Devices Engineering and their Sciences**

**5. Sensors**

**6. Interaction of Energies and Fields**

**7. Measure and Scrutinize Engineering**

**8. Photonic Sciences and their Fields of Utilization**

**9. Optoelectronics**

**10. Underwater Telecommunication Science**

**11. Mechatronics**

**12. Media Devices Engineering**

**13. Electronic Measure Devices**

**14. Microprocessor and its Applications**

**15. Power Electronics**

**16. Logic Applications and Constructions**

**17. Computer Applications ( Printed Circuit Board Design and Construction, such as**

**MatLab, Multisim V.10, Eaglewin, Express SCH & PCB )**

**18. Printed Circuit Board Construction and Manufacturing ( through**

**Target 3001 V.13 )**

**19. Computer Skills ( for International Computer Driving Licence ICDL / ECDL )**

**20. German Linguistics**

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**Memberships and Affiliations:**

* **Member in ( VDE ), German Engineers Association for Electrical / Electronic & Information Technology – District of the Association: Dresden - Free State of Saxony – The Federal Republic of Germany**

* **Member in ( JEA ), Jordan Engineers Association – Amman – HKJ**
* **Member in ( GCGU ), Graduates Compound of the German Universities – Amman – HKJ**
* **Member in ( GCDU ), Graduates Compound of the Dresden University of Technology – Dresden - Free State of Saxony – The Federal Republic of Germany**

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