

Research Interest:

- Control System.
- Mechatronics Systems.
- Mathematical Model: Design and Analysis.

Working Experience:

1. **Instructor - Department of Mechanical and Mechatronics Engineering - Birzeit University**, (24th of August 2015 – 2020)



- a. **Working Field:** Teaching and supervising undergraduate students.
- b. **Teaching Courses:** Industrial Automation and Manufacturing System, Control Theory, Advanced Control Theory (Modern Control System and Digital Control System), Mechatronics System Design, Instrumentation and Measurement, Mechanical Vibration, Mechatronics Lab., Engineering Drawing, Engineering Workshop, Control Theory Lab.
- c. **Address:** Birzeit University, PO Box 14, Birzeit, West Bank, Palestine
Website: <http://www.birzeit.edu>
- d. **Telephone:** +970-2-298-2000, Fax: +970-2-281-0656.

2. **Mechatronics Engineer - 01st of January 2015 – 20th of August 2015.**



- a. **Employer:** Techno Trade & Industry.
- b. **Working field:** Assembly & design control panels & power circuits, Maintaining & repairing Motors, Generators, Compressors, Pumps, and Electro-mechanical equipment.
- c. **Address:** Wad-Alkarm, Hebron, Palestine.
- d. **Website:** <http://www.tti.com.ps/>
- e. **TEL:** +972 2 2259955.

3. **Mechatronics Engineer-Trainee (1th May 2012 - 30th August 2012)**

- a. **Employer:** Marlis engineering MSdh Bhd
- b. **Training field:** Engineering research and development,
- c. Vehicle inspection, CNC development and retro fitting,



PCB board making, repair and reproduction.

Address: 38-3, Jalan 1/9 Serdang Raya, Selangor, Malaysia

TEL: +603 8938 1033, **FAX:** +603 8938 2033

Email: admin@marlisengineering.com

Academic Qualifications:





- 2012-2014** **Master of Control System and Automation Engineering (Courses with Thesis)**
Universiti Putra Malaysia (UPM), September 2012-September 2014 **Malaysia**
CGPA: 3.68 out of 4.
Thesis title: *Design Fuzzy-PID Controller for Brake-By-Wire of Electric Vehicle.*
- 2008-2012** **Bachelor of Engineering - Mechatronics** **Malaysia**
International Islamic University Malaysia (IIUM), September 2009-September 2012.
CGPA: 3.25 out of 4
Graduation project title: *Design Anti-Swing Controller for Suspended Load of a Helicopter (The controller implemented using small scale fabricated system that imitating suspended load of a helicopter).*
- 2006-2007** **General Secondary Certificate - Science** **Palestine**
AL-Husain Bin Ali secondary school.
Grade: 92.3%.

Certified Training, Workshops and Main Achievements:

1. **Simulation Real Time Workshop**, 40 training hours, participant, Birzeit University-Palestine, 2019.
2. **Mechatronics Study Plan Development**, main member, Birzeit University-Palestine, 2017-2018.
3. **Mechatronics Laboratory: Build as well as Design New Lab. Experiments and Fixed Old Experiments (building the lab. From scratch)**, Birzeit University-Palestine, 2015-2019.
4. **Hydraulic Systems: Control and Design Training Course**, 48 hours training, participant, Palestinian Polytechnic University under Career Oriented Curricula Development for Road Vehicle Maintenance (COD, Tempus), Hebron-Palestine, 2017.
5. **Automotive Technology Trends and CAN Bus in the Vehicle Workshop**, 48 hours, participant, under Career Oriented Curricula Development for Road Vehicle Maintenance (COD, Tempus), Birzeit University-Palestine, 2016.
6. **Car Electronics Training Workshop**, 16 hours training course, participant, under Career Oriented Curricula Development for Road Vehicle Maintenance (COD, Tempus), Birzeit University-Palestine, 2016.
7. **Elevator Control System and Operation Training Course**, 48 Hours training course, participant, Yaldirim Elektronik, Ankara-Turkey, 2016.
8. **Talk: Advantages And Disadvantages Of Applying Brake-By-Wire System (BBW) In The Vehicle**, participant, Malaysian section chapter of IEEE control system society, Malaysia , 2013.
9. **Learning and Teaching Methods Training Course**, 48 hours training, participant, UKM- Malaysia , 2013.
10. **Quality Assurance, Quality Document and standard ISO for Teaching and Learning**, 48 hours training course, participant, UKM- Malaysia, 2013.
11. **Leadership and Planning workshop**, 48 hours training course, participant, IIUM-Malaysia, 2010.
12. **Matlab, Robocan Competition, After Effect Program and Basic Computer Assembly**, organizer, IIUM-Malaysia, 2010.
13. **Creativity Robotics Workshop**, Participant, IIUM-Malaysia,2009.

14. Mahallah Representative Council, member-main board, IIUM Malaysia, 2009-2010.

Supervision Undergraduate Final Year Projects (Proud To Tell That All of Them Operated Successfully):

<p>1. Fully Automatic Beverage production Line (contains 7 stages with a size of 10 m length and 3 meter wide. Only one stage was fabricated) – Supervised with the Cooperation of Dr. Ahmad Balasi, Birzeit University-Palestine, 2018/2019.</p> <p>Student Names: 1) Nawras Qadoura, 2) Ahmad Khamaysa, 3) Tariq Zuhd, 4)Abdullah Abu Kanna 5) Suhaib Sohioni, 6) Mothana Ahmad</p>	
<p>2. Design, Control and Fabrication of Elevator System for the Use of Educational Purposes, Birzeit University-Palestine, 2018/2019.</p> <p>Student Names: 1) Mohanad Haddad, 2) Yousef Foqha, 3) Majd Abdullah, 4) Daoud Darkhalil.</p>	
<p>3. Lower Limb Rehabilitation Robot, Birzeit University-Palestine, 2017/2018.</p> <p>Student Names: 1) Basil Frejat, 2) Wissam Al-till, 3) Salim Atari.</p>	
<p>4. Solar Panel Cleaning Robot, Birzeit, University-Palestine, 2016/2017.</p> <p>Student Names: 1) Musallam Barghouthi, 2) Loai Mekdad, 3) Najdah Mustafa</p>	

Consultants:

Working as a consultant engineer regarding control systems of intelligent automatic parking systems - Al-shoroq Office, Jerusalem. Person in charge: Eng. Mohammad Showiki, +97250-5332786

Personal Skills:

***Computer/Programing skills**

- Microsoft Office, Matlab, Labview.

***Communication Skills:**

- Excellent in oral and written English and Arabic languages.
- Excellent in English technical writing & reports.

***Interpersonal Skills:**

- Efficient, supportive and self-motivated.
- Able to work independently and in groups.
- Able to work under pressure.

- Able to finish the task within its specified time.
- Positive thinking as well as Logical and critical reasoning.

***Organization Skills:**

- Co-operative & active.
- Team leadership and coordination skills.

Personal Details:

Marital status: Married.

Languages: **Arabic:** Mother tongue,

English: excellent,

Malay: Excellent (speaking only).

Sports: Swimming, Martial Arts (Karate-Kyokushin), Volleyball & Football.

References: References are available upon request.