

CURRICULUM VITA

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Research Interests

Industrial Robotic control and learning, autonomous robots, feedback control systems, dynamic systems design and control distributed control systems, SCADA, dynamic simulations, renewable energies, Process instrumentation and process control.

Academic Qualifications

[2008-2010] M.S. Mechatronics and Robotic Engineering, Univ. of Tun Hussein Onn, Malaysia, 2010

[1998-2004] B.S. Control system Engineering, Univ. of Tripoli (Alfateh previous), Libya, 2004

Administrative Experience

[1/9/2019- present] Department Head, Control Systems Engineering Department,
College of Electronic Technology, Bani Walid, Libya.

[1/8/2015-1/9/2017] Department Head, Oil and Gas Instrumentation Engineering Department,
College of Electronic Technology, Bani Walid, Libya.

[23/2/2016-Present] Board Director Member of Almotaka Center for Strategic and Future Studies.

[2006-29/3/2008] Head of Documentation and follow-up engineering department at Water and Wastewater Company.

[25/4/2004-2006] Pump Stations Control supervisor/Control Engineer.

Academic Experience

[17/5/2012-present] Lecturer at Control System Engineering Department.

[20/9/2015-present] Lecturer at Oil and Gas Instrumentation Eng. Department.

[15/9/2010 –9/2012] Lecturer of Computer and Information Technology Dept. at Zaitona University.

Certifications

Oct/2015: CCNA Routing and Switching Essentials, Cisco.

June/2013: 98-366: MTA: Networking Fundamentals, Microsoft.

Jane/2016: Conflict analysis and conduct dialogue.

Professional Work Experience

- +5 year experience in the field of control system development including hardware design, maintenance and troubleshooting, installation.
- Good experience in PLC programming, troubleshooting (SIEMENS 1200, Mitsubishi, Omron).
- Good Experience with SCADA (WINCC V7.3).
- 4 years' experience in control panels designing, Maintenance and troubleshooting.
- Strong knowledge on Electromechanical rotational and equipment maintenance and operations.
- Good knowledge Process Instrumentation calibration, maintenance.
- Strong experience in pneumatic systems.
- +2 year experience in biomedical Instruments maintenance, Installation.

Skills Knowledge

Excellent in Microsoft Office (Word, Excel, PowerPoint), Basics of GSM, Industrial robotics, Power Distribution, MATLAB Simulation. C programming, Mobile robot fabrication and design. SolidWorks Basics, Automation Studio programming, networks design, wincc v7.3 Siemens, factory I/O soft.

Social and volunteer skills

[2018-2019]

- Technical Committee member of International Workshop on Design Automation (IWODA www.iwoda.org), organized by HKSRA (Hong Kong Society of Robotics and Automation)
- Technical Committee member of RCAE 2018 international conference on robotics, control and automation engineering.
- Technical Committee member of AMEE 2018 (International Conference on Advanced Mechanical and Electrical Engineering).

[2017]

- Technical Committee member of 2017 IEEE 2nd international conference on control and robotics engineering (ICCRE 2017).

[April 2016]

Renewable energies workshop, (current situation, Potential, Alternatives) in bani walid city.

[May 2015]

Fundamentals of rotating equipment Workshop (Motors, Pumps, Turbines), at alfeker alhandsy in Tripoli city

[2015 - Present]

- Member of the *Association of Libyan engineers*.
- Founding member of the *Organization of the Dardanelles for Human Rights*.
- Chairman of the documentation and follow-up the Office of the *Organization of the Dardanelles*.
- Active member of the *Preparatory Committee for the Development Project* of Bani Walid City.
- Chairman of the Committee on *Energy and renewable energies*.

[2014 - Present]

- Founding member of the *Almotaka Center* for Strategic and Future Studies.
- Board Director Member of *Almotaka Center* for Strategic and Future Studies.

Professional Societies

Control System Society (CSS)

Instrumentation and Measurements Society (IMS)

International Society of Automation (ISA)

Publications

- 1- *WMR Obstacle Avoidance using Compass and Ultrasonic*, Universal Journal of Control and Automation , Vol.6, No.1 2018.
- 2- *Development of an Inspection, Packaging and packing machine*, liceet2018 conference.
- 3- *Wall Follower Autonomous Robot Development Applying Fuzzy Incremental Controller*, *Intelligent Control and Automation*, 2013, 4, 18-25.
- 4- *Automated Drilling Machine Based on PLC*, IJISSET - *International Journal of Innovative Science, Engineering & Technology*, Vol. 2 Issue 3, March 2015.
- 5- *Automated Packaging System Using PLC*, IJISSET, *International Journal of Innovative Science, Engineering & Technology*, Vol. 2 Issue 4, April 2015.
- 6- *Performance Comparison between PI and MRAC for Coupled-Tank System*, *Journal of Automation and Control Engineering* , Vol. 2 Issue 3, April 2014.
- 7- *Design and Implementation of PI and PIFL Controllers for Continuous Stirred Tank Reactor System*, (IJCSEE, Vol. 2, April 2014.
- 8- *Design and Fabrication of an Automated Multi-level*, (WSEAS), Vol. 2, April 2013.

Teaching Experience

- 1- SCADA (wincc v7.3 software + Plc S7 1200).
- 2- Industrial Data Networks
- 3- Control System Components.
- 4- Introduction to robotics.
- 5- (PLC) Programmable Logic Control
- 6- Modern Control Systems.
- 7- Multivariable Control.
- 8- Digital control systems.
- 9- Electro Mechanical Energy Conversion.
- 10- Linear Control System.
- 11- Introduction to control systems.

Supervised Projects

(Undergraduate Level)

1. ***Designing and implementation ultrasonic Flow meter*** **On Going**
2. ***Wheeled Mobile Robot Outdoor Navigation System*** **On Going**
3. ***Control of a car-like mobile robot for Auto parking*** **On Going**
4. ***Noninvasive method for measuring oxygen saturation spo2***, B.Sc, Control System DEP. Electronic Technology College , Bani Walid, Libya, *B.Sc, electronic technology college , BaniWalid, Libya, 2019*
5. ***SCADA system for water pumping station of Bani Walid City***, B.Sc, Oil and Gas Instrumentation DEP. Electronic Technology College , Bani Walid, Libya, 2017.
6. ***Control system development for water pumping station of Bani Walid City***, B.Sc, Oil and Gas Instrumentation DEP. Electronic Technology College , Bani Walid, Libya, 2017
7. ***Grade Rocket base launcher control***, B.Sc, Control System DEP. Electronic Technology College , Bani Walid, Libya, *B.Sc, electronic technology college , BaniWalid, Libya, 2017.*
8. ***Monitoring and control system of Irrigation farm***, B.Sc, Control System DEP. Electronic Technology College , Bani Walid, Libya, *B.Sc, electronic technology college , BaniWalid, Libya, 2016.*
9. ***Smart Home control System AND Monitoring using Raspberry Pi and Mobile App***, B.Sc, Control System DEP. Electronic Technology College , Bani Walid, Libya, *B.Sc, electronic technology college , BaniWalid, Libya, 2016.*
10. ***Heat exchanger Bypass Valve control design***, B.Sc, Oil and Gas Instrumentation DEP. Electronic Technology College , Bani Walid, Libya, *B.Sc, electronic technology college , BaniWalid, Libya, 2016.*
11. ***Measuring Turbidity of Liquids With Using Photo Voltaic Cell AND Laser Light***, Oil and Gas Instrumentation department, Electronic Technology College , BaniWalid, Libya, 2016.
12. ***Development of an Automatic Sorting, Packaging and Capping Machine Based on PLC***, B.Sc,Control system department, electronic technology college , BaniWalid, Libya, 2016.
13. ***Quarter Suspension Car System Simulation***, B.Sc, Control system department ,electronic technology college , BaniWalid, Libya, 2015.

14. *Inspection, Packaging and Packaging Machine Based on PLC*, B.Sc, Control system department, electronic technology college , BaniWalid, Libya, 2015.
15. *Pneumatic Stamp Machine Based on PLC*, B.Sc, electronic technology college , BaniWalid, Libya, 2015.
16. *Automated Packaging System Using PLC*, B.Sc, electronic technology college , BaniWalid, Libya, 2015.
17. *Wheeled Mobile Robot Avoidance Based on Compass and Ultrasonic sensors*, B.Sc, electronic technology college , BaniWalid, Libya, 2015.
18. *Automated Drilling Machine Based on PLC*, B.Sc, electronic technology college , BaniWalid, Libya, 2015.
19. *Inverse Kinematic and Dynamic Solution of Two DOF Arm Manipulator*, B.Sc, electronic technology college , BaniWalid, Libya, 2014.
20. *Mobile robot following simulation by matlab*, B.Sc, electronic technology college , BaniWalid, Libya, B.Sc, electronic technology college , BaniWalid, Libya, 2011.
21. *Dc motor simulation and analysis*, B.Sc, electronic technology college , BaniWalid, Libya, B.Sc, electronic technology college , BaniWalid, Libya, 2010.

Personal Information

Family Name	Mosbah
Full Name	Yousef Moh. Abueejela Mosbah
Date of birth	07 December, 1979 , Bani Walid
Nationality	Libyan
Interests	Reading, Football, Chess, Tennis Table

References

References are available on request.