

Curriculum Vitae



Personal data:

Name: Esmail.S.EB. Mohammed

Date of Birth: 4/2/1 972

Place of Birth: Libya

Degree: PhD degree

Major: Mechatronics and Automation

Academic qualification: : Ph.D

Occupation: Associate Professor

E-mail: ismaeber@yahoo.com

Academic Degree and Qualifications

- Ph.D. of Mechatronics Engineering, Atilim University, Tukey, 20 1 8.
- Master of Automation, Tripoli University, Libya, 2006.
- Bachelor of Engineering in Electrical Engineering industrial technology, Libya, 1998.

Academic Positions and Appointments

- Assistant Lecturer, Department of Electrical and Electronics, Higher Institute of technology, Zawia, 2006 till 2012,
- Lecturer, Department of Electrical and Electronics, Higher Institute of Technology, Zawia, 2012 till date.
- Teaching (automatic control, modern control, digital control, modeling, simulation, PLC) and Artificial Intelligence(IA). Engineering College. Zawia University, Libya, 2006 -2024.
- Supervision for several graduation projects at colleges and institutes, Laboratory Engineer (Electrical machines Lap PLC Lap, Digital and Analog electronic Circuit,

Electronics Lap & Electrical Circuits Lap ,Micro control lap,..), Higher Institute of Technology, Zawia 2000 - 2012.

Tasks and education functions

- Head of electrical and electronic department at the Higher Institute of technology/Zawia
- Chairman and member of Committees discuss for many graduation projects in colleges and institutes.
- Head of the Smart Control Company
- Chairman of Committee for equipment and laboratories in electrical department. ■
- Member of Committees for preparing and coordinating the curriculum of electrical and electronic department.

Current Research Interests

Control engineering, Electromagnetics, Modeling and Simulation, Artificial intelligence.

Teaching Experience

Total - 28 Years.

- Master's level (Associate Professor) - One year
- Master's level (Assistant Professor) – 4 years
- Undergraduate level (Lecturer) - 5 Years.
- Undergraduate level (Assistant Lecturer) - 6 Years.
- Undergraduate level (Engineer) - 8 Years.
- Graduate level (Engineer) - 4 Years.

Courses Scientific Taught:

I	Electrical Circuits (i-ii)	9	Modeling and simulation
2	Electric measurements	10	mathematical model and differential equations
3	Automatic control (i-ii)	II	power electronic

4	Modern control	12	AC Machines
5	Digital control	13	DC Machines
6	Programmable logic control(PLC)	14	Numerical linear algebra
7	Digital Circuits	14	Artificial intelligence
8	Digital Electronics	15	Fuzzy logic controller
	Mechatronics Engineering		Sensors and actuators
	Electronic engineering1-2		Robotics Engineering 1-2

Prepare lab experiments for the following: -

- The lab of Power electronics.
- The lab of PLC
- The lab of Electric measurements.
- The lab of Electric machinery.
- The lab of Auto control.

Training courses:

- A training course in the PLC systems.
- A training course in the MATLAB programming
- A training course in Arduino controller

Research and Published scientific studies

- Step motor control by using programmable logic controller (PLC)
(STA - December — 2009 Hammamet ,Tunisia)
- FIR digital filter design by using frequency sampling method
(STA - December — 2009 Hammamet ,Tunisia)
- Effect of coefficient quantization on the frequency of an IIR digital the
Filter by using software (MISC — 2010 Algeria)

- Air Gap Effect on the AFPM Generator (Inner Rotor) Performance,(International Journal of Engineering Research and Development (IJERD-2017).
- Neuro-Fuzzy Controller for Axial Flux Permanent Magnet Gearless Generator International Conference on Fuzzy System (Fuzzy-IEEE).2019.
- Develop Clamping and Drilling System Using PLC, Journal of Electronic Systems and Programming, Zawia, Libya. Issue: 4 December 2021.
- Rotational Motion Tracking using Stepping Motors Control, International Science and Technology Journal , Libya. Issue twenty-seven - October 2021.
- DC-motor motion Control (speed &position) using Sliding Mode Control(SMC).
- International Journal Of Modern Engineering Research (IJMER),India. Vol. 12 - Iss. 1- January 2022 -1.
- More efficiency of solar energy system in Libya Using Artificial Intelligence (Fuzzy Logic control), 2nd International Joint Conference on Engineering, Science and Artificial Intelligence, turkey Iss. 1-January 2022.

Sincerely,

Esmail .S.EB. Mohammed

Date: 15/10/2025