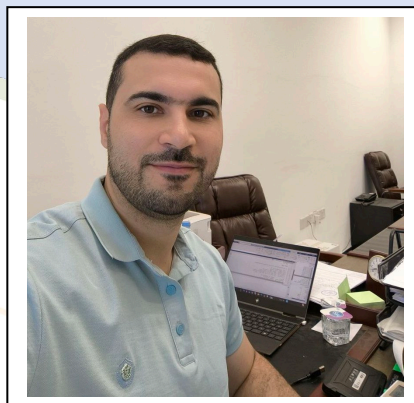




Faculty Member Academic Biography



Personal data

Name	Omar Yaseen Ismael		
Current academic rank	Asst. Professor		
Workplace	College of Electronics Engineering	Academic department	Systems and Control Engineering
General specialization	Mechatronics Engineering	Specialization	Control Systems Engineering
E-mail	omar.ismael@uoninevah.edu.iq		

Academic qualifications

Degree	University Name	Country Studied at	Major	Graduation Date
Ph.D. Student	University of Technology	Iraq	Control Engineering	---
M.Sc.	University of Newcastle Upon Tyne	United Kingdom	Mechatronics Engineering	2014
B.Sc.	University of Mosul	Iraq	Mechatronics Engineering	2010
Diploma	Northern Technical University	Iraq	Pharmacy Technician	2023

Academic rank:

Academic rank	Date of Obtaining the rank	Academic rank granting Institution
Asst. Professor	2024	Ninevah University
Lecturer	2021	Ninevah University
Asst. Lecturer	2016	Ninevah University

Practical experiences:

Time period		Employer	Job Title
from	to		
2016	till now	Ninevah University	Teaching (Asst. Professor)
2022	2023	Ninevah University	Accreditation Division Manager
2021	2022	Ninevah University	Educational Laboratory Quality Division Manager
2021	2023	Ninevah University	Internal quality auditor
2020	till now	Ninevah University	Scientific paper reviewer
2015	2016	Oiltech Company	Field Engineer
2011	2013	Oilserv Company	Field Engineer

Scientific production (published/accepted for publication):

Research Title	Place of publication	Country of publication	Number	Vol	date of publication
Fick's Law Algorithm Based- Nonlinear Model Predictive Control of Twin Rotor MIMO System	Journal of Robotics and Control (JRC)	Indonesia	3	5	2024
Nonlinear Model Predictive Control- Based Collision Avoidance for Mobile Robot	Journal of Robotics and Control (JRC)	Indonesia	1	5	2024

Shared Control of a Robot Arm Using BCI and Computer Vision	Journal Européen des Systèmes Automatisés (JESA)	Canada	1	55	2022
Equilibrium Optimizer-Based Robust Sliding Mode Control of Magnetic Levitation System	Journal Européen des Systèmes Automatisés (JESA)	Canada	1	54	2021
Landmarks Exploration Algorithm for Mobile Robot Indoor Localization Using Vision Sensor	Journal of Engineering Science and Technology (JESTEC)	Malaysia	4	16	2021
Salp Swarm Algorithm-Based Nonlinear Robust Control of Magnetic Levitation System Using Feedback Linearization Approach	ACM International Conference Proceeding Series	Indonesia	---	ICECC 2020	2020
Quantitative design analysis of an electric scissor lift	American Scientific Research Journal for Engineering, Technology, and Sciences	Jordan	1	59	2019
Image De-noising using 2-D Circular-Support Wavelet Transform	American Scientific Research Journal for Engineering, Technology, and Sciences	Jordan	1	42	2018
Forward and inverse kinematic analysis and validation of the abb irb 140 industrial robot	Journal of Mechanical Engineering and Technology (JMET)	Malaysia	2	9	2017

Development of an omnidirectional mobile robot using embedded color vision system for ball following	American Scientific Research Journal for Engineering, Technology, and Sciences	Jordan	1	22	2016
Analysis, design, and implementation of an omnidirectional mobile robot platform	American Scientific Research Journal for Engineering, Technology, and Sciences	Jordan	1	22	2016

Conferences, scientific seminars and workshops in which I participated:

Research Title	Name of conference/seminar/workshop	Venue of the conference/seminar/workshop	Date
Salp Swarm Algorithm-Based Nonlinear Robust Control of Magnetic Levitation System Using Feedback Linearization Approach	International Conference on Electronics, Communications and Control Engineering (ICECC 2020)	Bali, Indonesia	2020
Interfacing LabVIEW with Arduino using visa and serial toolkit	Continuing education workshop	College of Electronics Engineering, Ninevah University	2022
Connecting Arduino to LabVIEW for	Continuing education workshop	College of Electronics Engineering, Ninevah University	2021

data acquisition application			
Programmable logic controllers (PLC) training with factory I/O	Continuing education workshop	College of Electronics Engineering, Ninevah University	2022
Design a Matlab based graphical user interface	Continuing education workshop	College of Electronics Engineering, Ninevah University	2022
Fuzzy logic controller using MATLAB toolbox and Simulink	Continuing education workshop	College of Electronics Engineering, Ninevah University	2021
Introduction to LabVIEW virtual instruments workbench	Continuing education workshop	College of Electronics Engineering, Ninevah University	2019
Real time data acquisition using LabVIEW interface for Arduino	Continuing education workshop	College of Electronics Engineering, Ninevah University	2019
Introduction to virtual robot experimentation platform (V-REP)	Continuing education workshop	College of Electronics Engineering, Ninevah University	2019
Introduction to PLC and industrial factory simulation	Continuing education workshop	College of Electronics Engineering, Ninevah University	2019
Graphical user Interface (GUI) design for robot control	Continuing education workshop	College of Electronics Engineering, Ninevah University	2019
Readiness of the quality	Internal quality audit program	Ninevah University	2023

management system in laboratories			
Good Laboratory Practice	Quality workshop	Ninevah University	2021
---	symposium on support electrical energy consumption and reduce emissions	Ninevah University	2023
National standards for a Good Laboratory Practice	TOT	Ninevah University	2021
---	symposium on combating extremism and extremism	Ninevah University	2021
---	Design Day Challenge	Ninevah University	2019
---	Job fair	Ninevah University	2018
---	Job fair	Ninevah University	2023

Courses(s) I have taught:

Course name (subject)	Academic year	University/ Institution
Process Control	2017-2024	Systems and Control Engineering Department, Ninevah University
Computer Control Systems	2018-2024	Systems and Control Engineering Department, Ninevah University
MATLAB Programming	2017-2019	Systems and Control Engineering Department, Ninevah University
C++ Programming	2017-2019	Systems and Control Engineering Department, Ninevah University
Systems Modelling	2023-2024	Systems and Control Engineering

		Department, Ninevah University
Process Control Lab	2017-2024	Systems and Control Engineering Department, Ninevah University
DSP Lab	2023-2025	Systems and Control Engineering Department, Ninevah University
Signal and Systems Lab	2017-2018	Systems and Control Engineering Department, Ninevah University
C++ LAB	2017-2019	Systems and Control Engineering Department, Ninevah University
Robotics Lab	2024-2025	Systems and Control Engineering Department, Ninevah University
MATLAB Lab	2017-2019	Systems and Control Engineering Department, Ninevah University

Supervising Bachelor's theses:

Title	Degree	Date
Analysis, Design, and Implementation of an Omnidirectional Robot	Bachelor	2017-2018
Indoor Localization based Omnidirectional Robot by using CMUcam5 cameras and CCs Beacons.	Bachelor	2018-2019
A Smart Control System of Home Appliances Using Brain Computer Interface (BCI)	Bachelor	2019-2020
Mind Guided Motion Control of A Prosthetics Arm using EEG Signals	Bachelor	2019-2020
PLC-Based Automatic Sorting process System via Factory I/O Industrial simulator	Bachelor	2020-2021
Design and Implementation of a PLC-Based Automatic Liquid Filling System	Bachelor	2020-2021
Boosting the automation of an elevator model system via adding PLC and HMI	Bachelor	2021-2022

Artificial Gorilla Troops Optimizer-Based Cross Coupled PID Controller for Twin Rotor MIMO System	Bachelor	2022-2023
Slime Mould Algorithm -Based PID Controller for Magnetic Levitation System	Bachelor	2022-2023
Design and Implementation of a Smart Pill Dispenser	Bachelor	2022-2023
Equilibrium Optimizer Algorithm-Based LQR Controller for Magnetic Levitation System	Bachelor	2023-2024
Crayfish Optimization Algorithm- Based PID Plus Feed Forward Controller for Coupled Tank System	Bachelor	2023-2024
Fick's Law Algorithm-Based PID Controller for Twin Rotor MIMO System	Bachelor	2023-2024
Flood algorithm-Based LQR with integral action for Coupled Tank System	Bachelor	2024-2025

Note: This CV has been updated until 20/ 2/ 2025

