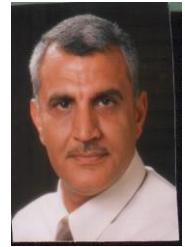


# Curriculum Vitae



**Name:** Dr. Mohammed Mahdi Ali Al-Selman

**Date of Birth:** Baghdad 1959

**Occupation:** Assistant Professor Computer Control Engineering

**E-Mail:** moh\_19592002@yahoo.co.uk

**Specialization:** Control & Systems Engineering

**Martial Status:** Married, Two Childs

**Mobile:** 00962796986257

**Qualifications:**

Degree	Specialization	Name of Institute	Date
Ph.D.	Real-Time Computer Control engineering	University Of Technology/Baghdad	1998
M.Sc.	Control and Systems Engineering	University Of Technology/Baghdad	1993
B.Sc.	Control and Systems Engineering	University Of Technology/Baghdad	1981

## Professional Experience:

From - To	Job Title	Place	Work
2022-2025	Assistant Prof.	Philadelphia University Jordan	Head of Electrical Engineering and Communication Departments
2021-2022	Assistant Prof.	Philadelphia University Jordan	Dean Deputy and Head of Electrical Engineering and Communication Departments
2019-2020	Assistant Prof.	Philadelphia University Jordan	Instructor
2017-2019	Assistant Prof.	Philadelphia University Jordan	Head of Renewable Energy and Electrical Engineering Departments
2016-2017	Assistant Prof.	Philadelphia University Jordan	Head of Computer and electrical Engineering Departments
2013-2016	Assistant Prof.	Philadelphia University Jordan	Head of Computer Engineering Department
2012	Assistant Prof.	Philadelphia University Jordan	Computer Engineering Department
2005-2011	Assistant Prof.	Philadelphia University Jordan	Head of Computer Engineering Department
2002-2005	Assistant Prof.	Philadelphia University Jordan	Instructor, Project Coordinator, Faculty QA Committee Coordinator
2000-2002	Assistant Prof.	University Of Technology Sudan	Instructor
1999-2000	Assistant Prof.	University Of Technology/ Hadramout	Instructor
1998-1999	Assistant Prof.	University Of Technology/Baghdad	Instructor
1993-1997	Lecturer	University Of Technology/Baghdad	Instructor, Department Coordinator
1990-1993	Engineer	University Of Technology/Baghdad	Laboratories Supervisor

### **Teaching Experience:**

**For The Past 25 Years In Undergraduate & Postgraduate Courses ( 5-Years at University of Technology -Baghdad. 1-Year at Hadhramout-Yeman. 2-Years at Sudan University of Science & Technology, 22 years and till now at Faculty of Eng., Philadelphia University, Amman, Jordan.).**

Main Subjects of Interest	Secondary Subjects of Interest
<b>Process Control for industrial plants</b>	<b>Interfacing Circuit Design</b>
<b>Real-time computer control of industrial Plants</b>	<b>Microprocessor</b>
<b>Modeling and Simulation of Control Systems</b>	<b>Discrete Mathematics</b>
<b>Optimal Control</b>	<b>Logic Circuit</b>
<b>System Identification</b>	<b>Digital Signal Processing</b>
<b>Adaptive Control (MRAC &amp; STR)</b>	<b>Advanced Mathematics</b>
<b>Modern Control Theory (MIMO &amp; SISO)</b>	<b>Digital Techniques</b>
<b>PLC's</b>	<b>Computer Architecture</b>
<b>Robotics &amp; Automation</b>	<b>Software Engineer</b>
<b>Mat lab control Applications</b>	<b>Pattern &amp; Image Recognition</b>
<b>Instrumentation</b>	<b>C++ Programming Language</b>
<b>Advanced Engineering Mathematics (for Msc.)</b>	<b>Numerical Analysis</b>
<b>Neural Networks and Fuzzy Logic</b>	<b>Electrical Circuits</b>
<b>Advanced Control Theory (for Msc.)</b>	<b>Advanced Modeling and Simulation (for Msc.)</b>

### **Consulting Services:**

From - To	Place	Consultancy
1995-1998	Iraq-Baghdad	Engineer Consultancy Center

### **Publications & Awards:**

Papers	Awards
25	1

### **Publications:**

- Rule-Based Fuzzy Logic Controller Design Of Industrial Plants, <i>M.Sc Thesis, and Control &amp; Computer Eng. Dept. University Of Technology –Baghdad – Iraq.</i>
- Design & Evaluation Of Fuzzy Logic Rule-Based Controller, <i>Eleventh Inter. Conf. On Applied Informatics Page No. (204-206) France-1993.</i>
- Applications of Fuzzy Logic Algorithm for Control of Industrial Plants, <i>First Iraqi Eng. Conf., 22-25 Nov., Baghdad-1994.</i>
- Self-Organizing Fuzzy Logic Controller, Design & Implementation, <i>CATAEE, 95 Conf., 21-23 May, Philadelphia University, Jordan-1995.</i>
- NeuroFuzzy Controller Design, PhD Thesis, <i>Control &amp; Computer Eng. Dept. University Of Technology, 1998.</i>
- NeuroFuzzy System Design for Control Applications: - Part1: Theory & Design. Part2: Applications. <i>CATAEE, 99 Conf., 19-20 October, Philadelphia University, Jordan-1999.</i>
- A Hierarchical Neuro-Fuzzy MRAC of a Robot in Flexible Manufacturing Environment, <i>The International Arab Journal of Information Technology, July 2004, Volume 1, Number 2.</i>
- Design and Simulation of an Iterative Fuzzy Logic Controller (IFLC), <i>Asian Journal of Information Technology 5 (1):34-37, 2006</i>
- Simulation of Neurofuzzy Controller Design for Unstable and Non-linear Control Systems, <i>CEE-SECR 2009 program, Russia</i>
- Maximum Power Point Neuro-Fuzzy Tracker for Photovoltaic Arrays <i>applied, 8th International Multi-Conference on Systems, Signals and Devices 2010.</i>

- *Wireless Cellular Systems Performance Improvement Based on Neural Network, INTERNATIONAL JOURNAL OF COMMUNICATIONS, Issue 4, Volume 6, 2012*
- *GPRS-Based Remote Sensing and Teleoperation of a Mobile Robot, International MultiConference on Sensors, Circuits and Instrumentation Systems, Tunisia 2012.*
- *The Effects of Mos Layers on Sensing Properties of Mos Photo sensor Inte. Journal on smart sensing and Intelligent Systems Vol.6, No.3, June 2013.*
- *GPRS – Based Remote Sensing and Teleoperation of a Mobile Robot, International Multi-Conference on Sensors, Circuits and Instrumentation Systems, Germany 2013.*
- *Real-Time Monitoring and Intelligent Control for Greenhouses Based on Wireless Sensor Network, International Multi-Conference on Sensors, Circuits and Instrumentation Systems, Barcelona 2014.*
- *Design and Realization of a Multi-Robot System for Real-Time Sensing and Monitoring, ICST2014 conference, Liverpool, UK.*
- *Robotino Obstacle Avoidance Capability Using Infrared Sensors, 2015 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technology (AEECT), November 3-5, 2015.*
- *A Simulation Study of Multi-Disciplinary Position Control Methods of Robot Arm DC Motor, SSD16, March 2016, Germany pp. 489-493.*
- *Path Tracking Control of a Mobile Robot Using Fuzzy Logic, SSD16, March 2016, Germany, pp. 83-88.*
- *Obstacles Avoidance for Omnidirectional Mobile Robot Using Line Trajectory Adaptation, SSD16, March 2016, Germany, pp. 96-101.*
- *Efficiency Enhancement Based on Allocating Bizarre Peaks, Intr. Journal of Wireless & Mobile Networks (IJWMN) Vol.8, No.4, August 2016.*
- *Power Peaks Allocation based on Averaging – Adaptive Wavelet Transform, Intr. Journal of circuits, systems and Processing, Vol.10, 2016, pp:440-447, ISSN: 1998-4464.*
- *Safe Navigation and Target Recognition for a Mobile Robot Using Neural Networks, SSD17, March 2017, Morocco, pp. 705-712.*
- *GPRS-Based Remote Sensing and Teleoperation of a Mobile Robot. (journal-2018)*
- *Efficiency Enhancement Based on Allocating Bizarre Peaks, Intr, Journal of Wireless & Mobile Networks (IJWMN, Vol.8, No.4, August 2019*
- *Wheelchair Neuro Fuzzy Control and Tracking System Based on Voice Recognition, Sensors (Q1) 2020, 20, 2872*
- *Obstacles Avoidance for Mobile Robot Using Type-2 Fuzzy logic Controller, Robotics (Q1) , 2022, 11, 130*

### **Administrative Experience:**

- Head of Electrical Engineering and Communication Departments Faculty of Engineering Philadelphia University, Amman, Jordan (2021-).
- Dean Deputy of Faculty of Engineering Philadelphia University, Amman, Jordan (2021-2022).
- Head of Quality Assurance Committee on faculty level.
- Member of Quality Assurance Council on University level.
- Head of Quality Assurance Committee in Faculty of Engineering and Technology / Philadelphia University 2020-.
- ABET committee supervisor and Self Study Report member in Electrical Engineering Department / Faculty of Engineering and Technology / Philadelphia University (2015-2018). ABET Accreditation was obtained in 2018/2019 cycle from initial visit.
- Head of Electrical Engineering and Renewable Engineering Departments Faculty of Engineering Philadelphia University, Amman, Jordan (2016- 2019).
- Head of Computer and Electrical Engineering Departments Faculty of Engineering Philadelphia University, Amman, Jordan (2013- 2016).
- Head of Computer Engineering Department Faculty of Engineering Philadelphia University, Amman, Jordan for six years (2005-2011)
- Quality Assurance Committee Coordinator of Faculty of Engineering Philadelphia University, Amman, Jordan (2005-2018). ABET coordinator committee – Faculty of Engineering.
- Member in many committees of Department and University levels (University Quality Assurance Committee) and Expert member in the Expert committee of Quality
- Department Coordinator for 5 years at Control & Engineering Dept. / University of Technology-Iraq (1993-1998).

### **M.Sc Dissertation Supervision At Sudan University Of Science & Technology and Philadelphia University:**

**Model Reference Adaptive Control: Design & Implementation.**

**Neuro Controller Design Based on Winner-Take-All Criterion.**

**Structural & Functional NeuroFuzzy Controllers.**

**Image Processing via ANN's.**

**Level Controller Design Of Laboratory Scale Industrial Process.**

**Path Tracking Control Of A Mobile Robot Using Fuzzy logic**

**Obstacle avoidance of a Mobile Robot Using Linear Model Adaptive Control.**

**Safe Navigation and Target Recognition for a Mobile Robot Using Neural Networks**

**Obstacles Avoidance for Mobile Robot Using Type-2 Fuzzy Logic Controller**

### **Prizes:**

- ISESCO Best Research Prize- 1998.

### **Referees:**

Name	Position	e-mail
1. Prof. Kasim Musa Al-Aubidy	Faculty of engineering Philadelphia university- Amman-Jordan	alaubidy@gmail.com
2. Prof. Mohammed Bani Younis	Dean of faculty of engineering Philadelphia university- Amman-Jordan	MBaniounis@philadelphia.edu.jo

**Signature:**

**Date: 16/12/2025**