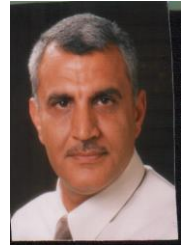


# Curriculum Vitae



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

**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 | MBaniyounis@philadelphia.edu.jo |

Signature:

Date: 16/12/2025