

## Curriculum Vitae

### Dr. Magdy Raouf Marzouk

Department of Mechatronics and Robotics  
Faculty of Engineering, Egyptian Russian University  
Badr City, Cairo-Suez Road, Postal Code 11829  
Tel.: (+2) 02 2864-3340, 2864-3342, Fax: (+2) 02 2864-3332  
URL: // eru.edu.eg

#### 1. Personal Information

**First Name / Sure Name:** Magdy Roman

**Date of Birth:** 26.08.1972

**Address:** 27 Desook st., Al-Esmaalya square,  
Miser El-Gadida, Cairo

**Nationality:** Egyptian

**Phone:** 202) 24171904 (residence),  
(+2) 0100-3373553 (mobile)

**E-mail:** magdyroman2000@yahoo.com

**Gender:** Male

#### 2. Education

Title of Awarded Degree	Name of Organization Providing Education	Principle Subject	Dates	
			From	To
Ph.D.	Moscow Power Engineering Institute (Technical University)	Automation and control of technological processes and manufacturing	2004	2008
Thesis Title: Choice of the optimal control system algorithms in conditions of fuzzy information				
MSc.:	Faculty of Engineering, Helwan University	Fluid Mechanics	1997	2001
Thesis Title:				
BSc. :	Faculty of Engineering, Helwan University	Mechanical Power Engineering	1990	1995

#### 3. Professional Experience

Occupation	Name & Address of Employer	Main Activities & Responsibilities	Dates

<i>Adjunct Lecturer</i>	Department of Mechatronics, Egyptian Russian University, Cairo, Egypt.	<ul style="list-style-type: none"> <li>• Involved in the research and designing of new courses and materials.</li> <li>• Assessing students course work and material.</li> <li>• Involved in the set up of exams and the marking of results.</li> <li>• Responsible for the departmental administrative tasks.</li> <li>• Providing mentoring, advice and support to students on a personal level.</li> <li>• Implementing University research projects and involved in its publication.</li> <li>• Carrying out staff appraisals.</li> <li>• Leading class discussions and encouraging debate.</li> </ul>	<b>From</b>	<b>To</b>
			<b>2013</b>	<b>now</b>
<i>Assistant professor</i>	Department of Mechanical Power Engineering, Helwan University, Cairo, Egypt	<ul style="list-style-type: none"> <li>• Involved in the research and designing of new courses and materials.</li> <li>• Assessing students course work and material.</li> <li>• Involved in the set up of exams</li> </ul>	<b>From</b>	<b>To</b>
			<b>2009</b>	<b>2013</b>

		<p>and the marking of results.</p> <ul style="list-style-type: none"> <li>• Responsible for the departmental administrative tasks.</li> <li>• Providing mentoring, advice and support to students on a personal level.</li> <li>• Implementing University research projects and involved in its publication.</li> <li>• Carrying out staff appraisals.</li> <li>• Leading class discussions and encouraging debate.</li> </ul>		
<i>Senior teaching assistant</i>	Department of Mechanical Power Engineering, Helwan University.	<ul style="list-style-type: none"> <li>• Teaching students using a systematic plan of classes, demonstrations, and assignments.</li> <li>• Conducting laboratory sessions.</li> <li>• Responsible for the departmental administrative tasks.</li> </ul>	<b>From</b>	<b>To</b>
			<b>2001</b>	<b>2008</b>
<i>Teaching assistant</i>	Department of Mechanical Power Engineering, Helwan University.	<ul style="list-style-type: none"> <li>• Teaching students using a systematic plan of classes, demonstrations, and assignments.</li> <li>• Conducting</li> </ul>	<b>From</b>	<b>To</b>
			<b>1995</b>	<b>2001</b>

		laboratory sessions. • Preparing, and marking homeworks and tests to evaluate students' learning and progress. Providing individualized tutorial instructions during office hours.		
--	--	---	--	--

#### 4. Discipline

<b>General Discipline</b>	<b>Mechanical Power Engineering</b>	<b>Principle Subject</b>	<b>Automatic Control</b>
---------------------------	-------------------------------------	--------------------------	--------------------------

#### 5. Teaching Experience

Course Title	Course Code	University	Academic Years
Control systems engineering		Helwan University Egyptian Russian University	
Advanced control systems		Helwan University	
Hydraulic and pneumatic control systems		Helwan University	
Fluid mechanics		Helwan University	
PLC control systems		Egyptian Russian University	
Modeling and Simulation		Egyptian Russian University	

#### 6. Professional & Technical Skills

- Member of the Center of Training and Consultation, Department of mechanical power engineering, Helwan university.

#### 7. Personal Skills

Computer Skills	Self Assessment		
	Excellent	Good	Fair

MATLAB	●		
Automation Studio		●	
AVR Studio		●	
Windows and Microsoft Office	●		
<b>Language Skills</b>	<b>Self Assessment</b>		
	<b>Excellent</b>	<b>Good</b>	<b>Fair</b>
English	●		
Russian		●	
<b>Other Skills</b>			

## 8. Scientific Activities

---

### a. Publication:

1. Magdy Roman, Mostafa Shoeib, Mostafa Rostom. An Exponential Field Path Planning Method for Mobile Robots Integrated with Visual Perception, World Academy of Science, Engineering and Technology, International Journal of Mechanical and Mechatronics Engineering, Vol:11, No:12, 2017.
2. Aly M, Roman M, Rabie M, Shaaban S. Observer-Based Optimal Position Control for Electrohydraulic Steer-by-Wire System Using Gray-Box System Identified Model. *ASME. J. Dyn. Sys., Meas., Control.* 2017;139(12):121002-121002-9. doi:10.1115/1.4037164.
3. Solyman, A.E., Keshk, A.B., Sharshar, K.A., & Roman, M.R. (2016). Design and Simulation of 5-DOF Vision-Based Manipulator to Increase Radiation Safety for Industrial Cobalt-60 Irradiators. *Arab Journal of Nuclear Sciences and Applications*, 49(3), 250-261, 2016.
4. Ahmed Salman, Magdy Roman, Afifi Keshk, Karam Sharshar, Vision control of 5-DOF manipulator for industrial applications, *International Journal of Innovative, Computing, Information and Control*, vol.12, no.3, pp. 735-746, 2016.
5. Salah Reda, Magdy Roman, Osama Ismail, Yehia Hendawy, Design and Implementation of a Vision-based Control for a Ball and Plate System, 2nd International Conference on Industrial Engineering, Applications and Manufacturing (ICIEAM) IEEE, 2016, Russia.
6. Shokry Ibrahim, Magdy Roman, Osama Mahmoud. Comparative Study between Intelligent and Classical Controllers, The Third International Conference of Advanced Applied Sciences (ICAAS-III), November 2015, Hurghada, Egypt.
7. Osama E. Mahmoud, Magdy R. Roman, John F. Nasry. Linear and Non-linear stabilizing control of a quadrotor UAV, International Conference on Engineering and Technology (ICET) IEEE, Cairo, Egypt 19-20 Apr, 2014.
8. Arakelyan E. K., Mezin S. V., Roman M. R. Design and Tuning of a Fuzzy Controller Limited by Stability Margin, *MPEI Bulletin No. 2*, Russia, 2008, pp. 13-19.

9. Arakelyan E. K., Mezin S. V., Roman M. R. Stability guarantee of fuzzy controllers, Proc. International scientific conference Control 2008, MPEI, Russia, 2008, pp. 76-81.
10. Arakelyan E. K., Mezin S. V., Roman M. R. Combined fuzzy and classical approach for steam turbine motor-mode automatization, Proc. 13th Zittau Fuzzy Colloquium, Zittau, Germany, 2006, pp. 89-92.

**b. Supervision:**

<b>Degree</b>	<b>Thesis Title</b>	<b>Researcher Name</b>	<b>Start Date</b>	<b>Approval Date</b>
MSc	Design and testing of best control system of a quadrotor	John Fekry	2009	2010
PhD	Modern Control Strategy Applied to Steer by Wire Incorporating an Electro-Hydraulic System	Mohamed Hanfy	2011	2012
MSc	Comparison between intelligent and conventional control system applied to inverted pendulum	Shokry	2012	2012
MSc	Effective programming by demonstration method for industrial robotic arms	Ali Essa	2017	Currently working
PhD	Vision-Based Robot Programming for Teleoperation Tasks in Hazardous Environments Using Augmented Reality	Ahmend Eslam	2017	Currently working
MSc	Position and trajectory programming of robotic manipulators assisted by augmented	Khaled Hossary	2017	Currently working
MSc	Vision-based cooperative control of multi-robot	Mostafa Shoeib	2015	Currently working

	system”			
MSc	Quadrotor UAV vision-based control for surveillance purposes	Eslam Gomaa	2014	Currently working
MSc	Design and implementation of a vision-based control for ball and plate system	Salah Reda	2014	Currently working
MSc	Modeling, simulation and control of a non-linear electro-hydraulic actuator system.	Khaled	2017	Currently working
MSc	A vision controlled robot to detect and collect fallen hot Cobalt-60 capsules inside wet storage pool of Cobalt-60 Irradiators”, Helwan university, Master of science, 2014.	Ahmed Eslam	2011	2015

**c. Conferences:**

Conferences	Professional Conference Organizer	Key note Speaker	Presenter	Attende e	Organize r

**9. Trainings & Workshops**

- FLS trainee (leading company in cement industries), Copenhagen, Denmark.

**10. Social Activities**


**11. Membership of Professional Associations**

## 12. Awards

---

- Best project design award, El-Moltaqa El-Araby, Tanta University, 2014.
- Department acknowledgement for the best teaching performance in 2012.
- First position in the university contest for Robocon in 2012.
- Miser El-Khair society encouraging award for students graduation projects, 2011.

*I certify that the information provided in this curriculum vitae is accurate.*

<b>Name</b>	<b>Magdy Raouf</b>	<b>Signature</b>		<b>Date</b>	24/9/2019
-------------	--------------------	------------------	--	-------------	-----------