

Summary



Dr. Osama is a lecturer at Faculty of Electronic Engineering Menouf, Menoufia University since 2015 (on leave). He is currently a lecturer at Mechatronics Engineering Dep.; High Institute of Engineering and Technology (HIET)-El-Mahalla ElKobra- Ministry of Higher Education - (September 2020 - Till Now). He received his PhD in Mechatronics and Robotics Engineering from Egypt-Japan University of Science and Technology (E-JUST), Alexandria. Also, he received his BSc. and MSc. in Electronic Engineering and Automatic Control Engineering, respectively from Menoufia University- Faculty of Electronic Engineering.

Personal Data

Birth	▪ 13 July 1982 - Gharbia- Egypt
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Education

- **PhD in Mechatronics and Robotics Engineering** - Mechatronics and Robotics Department - Egypt-Japan University for Science and Technology (E-JUST)- Egypt, **September 2015**
- **M.Sc. In Automatic Control Engineering** - Faculty of Electronic Engineering Menouf - Menoufia University – Egypt, **January 2012**
- **B.Sc. In Electronic Engineering** - Faculty of Electronic Engineering Menouf - Menoufia University – Egypt, **May 2004**

Professional Experience

Full Time Lecturer	• Mechatronics Engineering Dep.; High Institute of Engineering and Technology (HIET)-El-Mahalla ElKobra- Ministry of Higher Education - (September 2020 - Till Now).
Full Time Lecturer (On Leave)	• Industrial Electronics and Control Engineering Dep.- Faculty of Electronic Engineering-Menoufia University- (Sep. 2015 - till Aug. 2020)
Part Time Lecturer	• Mechanical Engineering Dep.; Modern University for Technology and

	Information (MTI) - (Jan. 2019 - Till Now).
Part Time Lecturer	• Mechanical Engineering Dep.; Université Française D’Egypte(UFE) - (Sep. 2017 - Till Now).
Part Time Lecturer	• Mechatronics Engineering Dep.; High Institute of Engineering and Technology (HIET)-El-Mahalla ElKobra- Ministry of Higher Education - (Jan. 2017 - Till Aug. 2020).
Assistant Lecturer	• Industrial Electronics and Control Engineering Dep.- Faculty of Electronic Engineering; Menoufia University- (March 2012 - Aug. 2015)
Teaching Assistant-	• Industrial Electronics and Control Engineering Dep.-Faculty of Electronic Engineering-Menoufia University- (Jan. 2005 - Feb. 2012)

Major Research Fields

- Conceptual frameworks of Mechatronics and Robotics Engineering and Automatic Control Engineering:
 - Mobile Robots
 - Artificial Intelligence Control (Fuzzy, Neural Networks, Genetic, Particle Swarm Optimization...etc)
 - Iterative Learning Control
 - Fraction Fractional Order
 - Sliding Mode Control

Selected Publications

2023	E. Mostafa, A. M. El-Nagar, O. Elshazly , and M. El-Bardini, Embedded Adaptive Fractional Order Sliding Mode Control Based on TSK Fuzzy System for Nonlinear Fractional Order Systems, <i>Soft Computing Journal</i> , (Major Revision)
2021	E. Mostafa, A. M. El-Nagar, O. Elshazly , and M. El-Bardini, Fractional Order Sliding Mode Controller: Design, Performance Evaluation, Stability Analysis and Optimization, <i>Menoufia J. of Electronic Engineering Research (MJEER)</i> , Vol. 30, No. 2, Jul. 2021
2021	E. Mostafa, A. M. El-Nagar, O. Elshazly and M. El-Bardini, "Adaptive Fractional Order Sliding Mode Control for a Nonlinear System," 2021 International Conference on Electronic Engineering (ICEEM), Menouf, Egypt, 2021, pp. 1-6, doi: 10.1109/ICEEM52022.2021.9480657.
2016	Osama Elshazly , Zakarya Zyada, Abdelfatah Mohamed, "Genetic-Based Control of a Skid Steering Mobile Robot", <i>International Journal of Mechanisms and Robotic Systems</i> , Vol. 3, No. 4, PP. 250–269.
2016	Osama Elshazly , Hossam Abbas, and Zakarya Zyada, "Dynamics Based Control Of A Skid Steering Mobile Robot" , <i>The Journal of Computer Science and Information</i> ;vol. 9, no. 2, PP. 71-80, June 2016.
2015	Osama Elshazly , Zakarya Zyada, Abdelfatah Mohamed, and Giovanni Muscato, " Optimized Control of Skid Steering Mobile Robot with Slip Conditions", In the proceeding of the IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM2015), Busan, Korea, PP. 959-964 , July 2015.
2014	Osama Elshazly , Hossam Abbas, Zakarya Zyada, and Ahmed Abo Ismail, "Skid Steering Mobile Robot Modelling and Control" , The proceeding of the 2014 UKACC 10th International Conference on Control (Control 2014), Loughborough University, U.K.; PP. 66-71, July 2014.
2014	Osama Elshazly , Zakarya Zyada, and Ahmed Abo Ismail, "Genetic Nonlinear Controller

	of a Skid Steering Mobile Robot with Slip Conditions ", In the proceeding of the 2014 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2014 - THETA 19thEdition., Cluj-Napoca, Romania; PP. 223-228, May 2014.
2014	Osama Elshazly , Mohammad El-Bardini, and Nabila El-Rabaie, " Adaptive Fuzzy Iterative Learning Controller for X-Y Table Position Control ", In the proceeding of the 2014 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2014 - THETA 19th Edition., Cluj-Napoca, Romania; PP. 51-56, May 2014.

Faculty and Leadership Development Qualifications

	Course	From	To	Hours
1	Effective Presentation Skills	24/08/2008	26/08/2008	15 Hours
2	Conference Organization	07/09/2008	09/09/2008	15 Hours
3	How to Compete for a Research Fund	14/09/2008	16/09/2008	15 Hours
4	Using Technology in Education	21/09/2008	23/09/2008	15 Hours
5	Scientific Research Ethics	14/08/2011	16/08/2011	15 Hours
6	University Staff Member's Code of Ethics	21/08/2011	23/08/2011	15 Hours
7	People Management	06/09/2015	07/09/2015	15 Hours
8	Decision Making and Problem Solving	13/09/2015	14/09/2015	15 Hours
9	Quality Standards in the Education Process	15/09/2015	16/09/2015	15 Hours
10	Exams and Student Evaluation Systems	20/09/2015	21/09/2015	15 Hours
11	Legal and Financial Aspects in University Environment	04/10/2015	05/10/2015	15 Hours
12	The Credit Hours Systems	20/10/2015	21/10/2015	15 Hours
13	Electronic Exams	21/7/2020	22/7/2020	15 Hours
14	Academic Supervision Student Support and Teaching Strategies in Higher Education Institution	28/7/2020	29/7/2020	15 Hours
15	Crisis Management	9/8/2020	10/8/2020	15 Hours
16	Self-Evaluation Study of Higher Education Institution	12/8/2020	13/8/2020	15 Hours
17	Mind Mapping Skills	16/8/2020	17/8/2020	15 Hours
18	Time and Conference Management	18/8/2020	19/8/2020	15 Hours
19	Essential Skills for Distance Learning	4/1/2021	15/1/2021	15 Hours

Selected Technical Experience

- A member of a Mobility Grant Project, Exchange of Researchers (Project ID: EG13MO6), 2013-2015, between Catania University-Italy and Egypt-Japan University for Science and Technology (E-JUST)-Egypt, which is supported by Science and Technological Development Fund (STDF)-Egypt.
- Supervisor for the Egyptian team participating in the international Autonomous Robot Racing Challenge (IARRC-16) - University of Waterloo-Canada (The 4th of the participated teams from all over the World related to Technical Report)
- Supervisor for the Egyptian team participating in the International Design Contest (IDC-Robocon2016) Bangkok-Thailand.
- Supervisor for the Faculty of Electronic Engineering Menouf- ROBOCON teams since 2007.
- Reviewer for Journal of Intelligent and Robotic Systems.
- Reviewer for Journal of Advances in Mechanical Engineering.
- Reviewer for International Journal of Mechanisms and Robotic Systems.
- Reviewer for IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).

- Reviewer for IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM).

Conferences - Workshops Attendance and Participation

- ◆ **2019:** Attend the 1st International Conference on Electronic Engineering, 7-8 December 2019 Menoufia University, Egypt.
- ◆ **2019:** Attend the 3rd Egypt-Japan Workshop on Practical Education for Mechatronics and Robotics, 28-30 October 2019 - E-JUST- Alexandria - Egypt.
- ◆ **2015:** Attend the IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM2015), Busan, Korea, 7-11 July 2015
- ◆ **2014:** Attend and participate in organization of the First Egypt-Japan Workshop on Practical Education for Mechatronics and Robotics - 22-26 March 2014 - Alexandria - Egypt.
- ◆ **2013:** Attend and Participate in Robotic Technologies for Humanitarian Landmine Detection Workshop held in the City for Scientific Research and Technology Applications at New Borg El Arab-Alexandria-Egypt, 4-6 June 2013.
- ◆ **2012:** Attend and participate in organization of the IEEE International Conference on Innovative Engineering (ICIES 2012) - 7-9 December 2012 - Alexandria - Egypt.
- ◆ **2010:** Attend and participate in Bio-Robotics Workshop held in Bibliotheca Alexandrina- 13-15 December 2010 - Alexandria- Egypt.

Administrative Positions

- ◆ **Quality Assurance Unit (QAU) Executive Manager-** High Institute of Engineering and Technology (HIET); Ministry of High Education- Egypt (July 2021 - till Now)
- ◆ **Management Board Member** - High Institute of Engineering and Technology (HIET); Ministry of High Education- Egypt (Sep 2021 - till Now) [Ministerial Decree: No. 1396 -Date 25/10/2021]

Referees

■ **Prof. Hesham M. El-Batsh**

- Professor in Mechatronics Engineering Department, and Dean of High Institute of Engineering and Technology (HIET)-El-Mahalla ElKobra, Egypt.
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