

OSAMA ELSHAZLY HASSAN HABIB

Assistant Professor

*Industrial Electronics and Control Engineering Department
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Personal Data



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Education

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

Academic Positions

- 2015-Now Assistant Professor(Full Time), Department of Industrial Electronics and Control Engineering;
Faculty of Electronic Engineering; Menoufia University- Egypt (Sep. 2015 - till Now)
- 2019-Now Assistant Professor(Part Time), Department of Mechanical Engineering; Modern University
for Technology and Information (MTI) - Egypt (Feb. 2019 - till Now)

- 2017-Now Assistant Professor(Part Time), Department of Mechanical Engineering; Université Française d'Egypte - Egypt (Sep. 2017 - till Now)
- 2017-Now Assistant Professor(Part Time), Department of Mechatronics Engineering; High Institute of Engineering and Technology(HIET); Ministry of High Education- Egypt (Jan. 2017 - till Now)
- 2014-2015 Research Fellow; Dipartimento di Ingegneria Elettrica Elettronica e Informatica - Catania University- Italy (Sep. 2014 - June 2015)
- PhD Student- Mechatronics and Robotics Department - Egypt-Japan University for Science and Technology (E-JUST)- Egypt (Sep. 2012 - Aug. 2015)
- 2012-2015 - Assistant Lecturer, Department of Industrial Electronics and Control Engineering; Faculty of Electronic Engineering; Menoufia University- Egypt (March 2012 - Aug. 2015)
- 2005-2012 Teaching Assistant, Department of Industrial Electronics and Control Engineering; Faculty of Electronic Engineering; Menoufia University- Egypt (Jan. 2005 - Feb. 2012)
- 2005-2007 Officer, Egyptian Armed Forces (Military Service) (April. 2005 - Oct. 2007)

Research Interests

- Mechatronics and Robotics.
- Automatic Control Engineering.

Research Projects

- A member of a Mobility Grant Project, Exchange of Researchers (Project ID: EG13MO06), 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.

Conferences - Workshops Attendance and Participation

- 2019 Attend the First 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.

Honors and Awards

2015 Egyptian Engineers Syndicate Prize for PhD Graduation.

2012 PhD scholarship - The Ministry of Higher Education of Egypt (MoHE)- Mission Department - Egypt

2012 Egyptian Engineers Syndicate Prize for MSc. Graduation.

2004 Egyptian Engineers Syndicate Prize for Top Engineers Graduates.

Academic Teaching Experience

- Teaching the following courses for the Postgraduate Students as an Assistant Professor at Faculty of Electronic Engineering- Menofia University (September 2015 - Now):

* Selective Topics in Robotics Engineering Course (Master Students), Introduction to Robotics (2nd year Diploma).

- Teaching the following courses for the Undergraduate Students as an Assistant Professor at Faculty of Electronic Engineering- Menofia University(September 2015 - Now):

* Robotics Course (3rd year), Real Time Control Systems (4th year).

* Introduction to Mechatronics Course (4th year), Control Systems Applications (4th year).

- Teaching the following courses for the Undergraduate Students as an Assistant Professor at Université Française d'Egypte - Egypt (September 2017 - Now):

* Process Control and Servo Systems (4th Level), Artificial Intelligence techniques in Control Engineering (5th Level).

- Teaching the following courses for the Undergraduate Students as an Assistant Professor at High Institute for Engineering and Technology ((HIET))(Jan 2017 - Now):

* Mechatronics Systems Design (5th Level), Introduction to Robotics (4th Level), Machine Theory-1 (2nd Level),Machine Theory-2 (3rd Level), Computer Numerical Controlled(CNC) Machines (4th Level), Motion Control and Servo Systems (5th Level), Intelligent Control Systems (5th Level).

- Teaching the following courses for the Undergraduate Students as an Assistant Professor at Modern University for Technology and Information (MTI)- Egypt (February 2019 - Now):

* Robot Engineering and Control (5th Level), Mechatronics II (5th Level), Modeling and Simulation of Industrial Systems (4th Level).

- **Teaching and demonstrating the following courses as an Assistant Lecturer at Faculty of Electronic Engineering- Menofia University (Jan. 2005 - Aug. 2012):**

- * Laboratory Tests (1st year, 2nd year, 3rd year, 4th year).
- * Microcontrollers (3rd year).
- * Real Time Control Systems (4th year).
- * SCADA systems (4th year).
- * Programmable Logic Controllers (PLCs) (3rd year).
- * Programmable Logic Controllers (PLCs) Applications (4th year).

Services

- **Supervisor for the Egyptian team participating in th international Autonomous Robot Racing Challenge(IARRC-16) - University of Waterloo-Canada(The Fourth of the participated teams from all over the World related to Techincal 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.**
- **Supervisor for Master Students and Graduation's Projects**
- **Reviewer for Journal of 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).**

Language and Programming Skills

Languages:

Arabic	Native
English	Very Good (TOEFL=72 and IELTS=6.5)
French	Read

ProgrammingSkills:

Working knowledge	MATLAB, C++, LABView, Visual Basic
Basic knowledge	Robotics Operating Systems(ROS), SolidWorks,ADAMS

Practical Experience

2012-2015 Dealing with experimental system(Seekur Jr Mobile Robot) during my PhD Degree, Egypt, 2012-2015.

- 2008-2009 Supervisor of Robocon teams in Robocon Egypt 2008 and 2009 competitions..
- 2004 Graduation project with a team of my colleagues during last year in Faculty of Electronic Engineering Menouf called "Real Time Control of Designed Mobile Robotic System ", 2004.
- 2003 Practical training course on "Industrial Control Systems" which has held in " Abu Qir Fertilizers Company", Alexandria, Egypt, 2003.

Research and Projects Funds

- About **One Million LE (Egyptian Pounds)** for the 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, **Donor:** Science and Technological Development Fund (STDF)-Egypt.
- About **50,000 LE(Egyptian Pounds)** for participation in th international Autonomous Robot Racing Challenge(IARRC-16) - University of Waterloo-Canada. **Donor:** Academy of Scientific Research and Technology and Menoufia University-Egypt.
- About **40,000 LE(Egyptian Pounds)** for participation in the International Design Contest(IDC-Robocon2016)-Bangkok-Thailand. **Donor:** Academy of Scientific Research and Technology and Menoufia University-Egypt.
- About **30,000 LE(Egyptian Pounds)** annually for annual participation in ROBOCON-Egypt competition. **Donor:** Menoufia University-Egypt.

Faculty and Leadership Development Qualifications

No	Course Name	From	To	Hours
1	Effective Presentation Skills	24/08/2008	26/08/2008	15 Hour
2	Conference Organization	07/09/2008	09/09/2008	15 Hour
3	How to Compete for a Research Fund	14/09/2008	16/09/2008	15 Hour
4	Using Technology in Education	21/09/2008	23/09/2008	15 Hour
5	Scientific Research Ethics	14/08/2011	16/08/2011	15 Hour
6	University Staff Member's Code of Ethics	21/08/2011	23/08/2011	15 Hour
7	People Management	06/09/2015	07/09/2015	15 Hour
8	Decision Making and Problem Solving	13/09/2015	14/09/2015	15 Hour
9	Quality Standards in the Education Process	15/09/2015	16/09/2015	15 Hour
10	Exams and Student Evaluation Systems	20/09/2015	21/09/2015	15 Hour
11	Legal and Financial Aspects in University Environment	04/10/2015	05/10/2015	15 Hour
12	The Credit Hours Systems	20/10/2015	21/10/2015	15 Hour

Research Publications

- 2016 **Osama Elshazly**, Zakarya Zyada, Abdelfatah Mohamed, "Genetic-Based Control of a Skid Steering Mobile Robot", *International Journal of Mechanisms and Robotic Systems*, Vol. 3, No. 4, PP. 250–269.

- 8 2016 **Osama Elshazly**, Hossam Abbas, and Zakarya Zyada, "Dynamics Based Control Of A Skid Steering Mobile Robot" , The Journal of Computer Science and Information;vol. 9, no. 2, PP. 71-80, June 2016.
- C 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.
- C 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.
- C 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 19th Edition., Cluj-Napoca, Romania; PP. 223-228, May 2014.
- C 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.
- K 2012 **Osama Elshazly**, Mohammad El-Bardini, and Nabila El-Rabaie, "Development of Self-Tuning Fuzzy Iterative Learning Control for Controlling a Mechatronic System ", International Journal of Information and Electronics Engineering, vol. 2, no. 4, pp.565-569, 2012.
- C 2011 **Osama Elshazly**, Mohammad El-Bardini, and Nabila El-Rabaie, "Development of Self-Tuning Fuzzy Iterative Learning Control for Controlling a Mechatronic System ", The proceeding of the 3rd International Conference on Computer and Automation Engineering (ICCAE 2011), vol. 3, pp. 193-197, China, January 2011.

Referees

1. Prof. Mohammed A. El-Bardini

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2. Prof. Nabila M. EL-Rabaie

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3- Assoc. Prof. Zakarya Zyada

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