

OSAMA ELSHAZLY HASSAN HABIB

Assistant Professor

*Industrial Electronics and Control Engineering Department
Faculty of Electronic Engineering Menouf - Menoufia University
Egypt*

Personal Data



BIRTH: 13 July 1982 - Gharbeya- Egypt

ADDRESS: Work: Menouf- El-Menoufia -Egypt - Postal Code: 32952
Home: Samannoud - Elgharbia - Egypt - Postal Code: 31658

PHONE: 002-0100-5543859

FAX: 002-048-3660716

URLS: <https://scholar.google.com.eg/citations?user=OZfo01gAAAAJ&hl=en>
https://www.researchgate.net/profile/Osama_Elshazly
http://mu.menofia.edu.eg/Osama_Habib

E.MAILS: osama.elshazly@el-eng.menofia.edu.eg
osama.elshazly@ejust.edu.eg

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: 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.

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 the international Autonomous Robot Racing Challenge(IARRC-16) - University of Waterloo-Canada(The Fourth 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.**
- **Supervisor for Master Students and Graduation's Projects**
- **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).**

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.**

- 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.
- 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 19th Edition., 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.
- 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.
- 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

- **Professor** in Industrial Electronics and Control Eng. Department, and **Dean** of Faculty of Electronic Engineering, Menoufia University, 32952 - Menouf, El-Menoufia, Egypt.

- E-mail: drmoh_2000@yahoo.com

- Mobile: 002-010-92243079

2. Prof. Nabila M. EL-Rabaie

- **Professor**, Industrial Electronics and Control Eng. Department, Faculty of Electronic Engineering, Menoufia University, 32952 ? Menouf, El-Menoufia, Egypt.

- E-mail: Nabila2100@gmail.com

- Mobile: 002-010-97920903

3- Assoc. Prof. Zakarya Zyada

- **Associate Professor**, FKM, Universiti Teknologi Malaysia, 81310 Johor, Malaysia- ("On-leave" Mechanical Power Engineering, Tanta University, 31511 Tanta, Egypt)

- E-mail: zakarya@utm.my- zzyada@f-eng.tanta.edu.eg

- Mobile: 002-010-26103922