Abdalla ElgammalCurriculum VitaeBenha Faculty of Engineering, Benha university, Egypt
Qalyubia Governorate – Banha city, Farid Nada Street+201003313715• abdalla.elgammal@bhit.bu.edu.eghttp://www.bu.edu.eg/

Date of Birth 9 March 1988

Nationality Egyptian



Education

Egypt-Japan University of Science and Technology (EJUST), <i>Ph.D.</i>	Egypt 2014 - 2017
Mechatronics and Robotics Engineering Department	
thesis: Design, Dynamic Modeling and Control of a Novel 3D Compliant Pantograph Ma micromanipulation	anipulator for
Egypt-Japan University of Science and Technology (EJUST), <i>M.Sc.</i>	Egypt 2012 - 2014
Mechatronics and Robotics Engineering Department	
thesis: Intelligent Control of Magnetically Levitated Camera For Endoscopic Surgery Benha Faculty of Engineering (B-FENG), Benha University, B.Sc. Control - Electrical Engineering	Egypt 2004 - 2009
Academic Appointments	
Electrical Engineering Department Benha Faculty of Engineering (B-FENG),, Benha University, Assistant professor	Egypt 2018 – present
Mechatronics and Robotics Engineering Department Egypt-Japan University of Science and Technology (EJUST), Former Ph.D student	Egypt 2014 - 2017
School of Creative Science and Engineering	Japan
Waseda University, Tokyo	2016 - 2017
Visiting research fellow	

Electrical Engineering Department Benha Faculty of Engineering (B-FENG),, Benha University, Assistant Lecturer	Egypt 2014 - 2017
Mechatronics and Robotics Engineering Department Egypt-Japan University of Science and Technology (EJUST), Former M.SC student	Egypt 2012 - 2014
The first Egypt-Japan workshop on practical education for mechatronics and robotics, Volunteering work	Egypt March 22-26, 2014
Organized by Mechatronics and Robotics Engineering Department, Egypt-Japan University of Science and Technology, E-JUST , supported by STDF and JSPS	
Electrical Engineering Department Benha Faculty of Engineering, Benha University, Demonstrator	Egypt 2009 - 2012
"Tech Planet center", Cairo Instructor	Egypt 2009 - 2010

Teaching Experience

Signal and systems	(B-FENG)
Lecturer, spring 2019, 2020	
Robotics	(B-FENG)
Lecturer, spring 2019, 2020	
Robotics Controllers,	(B-FENG)
Post-graduate, Spring 2019, 2020	
Computer Programing A	(B-FENG)
Lecturer, fall 2018	
Computer Applications A	(B-FENG)
Lecturer, fall 2018	
Electric Engineering and circuit analysis A	(B-FENG)
Lecturer, fall 2018	
Electric machines	(B-FENG)
Lecturer, Fall 2017	
Computer Programing B	(B-FENG)
Lecturer, Spring 2017	
Computer Applications B	(B-FENG)
Lecturer, Spring 2017	
Electric Engineering and circuit analysis B	(B-FENG)
Lecturer, Spring 2017	
Control Engineering I, II	(B-FENG)
Teaching Assistant, Spring 2009-2010	
Biomedical Engineering	(B-FENG)
Teaching Assistant, Spring 2009-2010	
Power system protection	(B-FENG)

Teaching Assistant, Spring 2011-2012 **Electronic measurements** Teaching Assistant, Spring 2011-2012 **Work Experience**

(B-FENG)

	E (
Arab Contractors	Egypt,
Operations and Maintenance Engineer	2009-2010
Alex-Converta company "HANDY",	Egypt,
Operations and Maintenance Engineer	2009-2010
Funded Research Grants	
Project 1: Remote center of motion (RCM) Manipulator for Vitreoretinal Surgery	150,000 LE
Project 2: Design of a 3U Cubesat Structure and its Deploying Mechanism	75,000 LE
Project 3: A Novel Hybrid Aerial and Ground Hoverbike: Dynamics and Control	30,000 LE
Project 4: Solar Powered Vending Machine	10,000 LE

Student Advising and Mentoring

Graduation projects

- 1. Solar powered vending machine
- 2. Dynamic modeling and control of quad copter
- 3. Design of a 3U Cubesat Structure and its Deploying Mechanism

Languages

• Arabic (Native language) • English International TOEFL 82 IBT.

Publications and patents.

Journals

[J1] **Elgammal**, **A. T.**, Fanni, M., & Mohamed, A. M. (2017). Design and Analysis of a Novel 3D Decoupled Manipulator Based on Compliant Pantograph for Micromanipulation. *Journal of Intelligent & Robotic Systems*, 87(1), 43-57.

[J2] Lashin, M., **Elgammal, A.T.**, Fanni, M., Mohamed, A.M. and Miyashita, T., 2018. *Optimal controller design for fully decoupled 3D transnational pantograph manipulator for high-speed pick and place*. International Journal of Mechatronics and Automation, 6(4), pp.160-172.

Conferences

[C1] M. Gaafar, M. Magdy, A. T. Elgammal, A. El-Betar and A. M. Saeed, "Development of a New Compliant Remote Center of Motion (RCM) Mechanism for Vitreoretinal Surgery,"
2020 6th International Conference on Control, Automation and Robotics (ICCAR), Singapore, Singapore, 2020, pp. 183-187, doi: 10.1109/ICCAR49639.2020.9108005.

[C2] Abdullah.T Elgammal, Mohamed Fanni, Manar Lashin, Mahmoud Magdy and Abdelfatah Mohamed, "Parametric Design and Analysis of a New 3D Compliant Manipulator for

Micromanipulation", 2017 IEEE International Conference on Advanced Intelligent Mechatronics.

[C3] Elgammal, A. T., Fanni, M., Lashin, M., Mohamed, A. M. (2016, April), "Dynamic modeling and robust motion control of a 2D compliant pantograph for micromanipulation", in 2016 2nd International Conference on Control, Automation and Robotics (ICCAR), (pp. 159-164) IEEE, 2016.

[C4] Magdy, M., Fanni, M., Elgammal, A. T., & Mohamed, A. M. (2016, April). New fully decoupled manipulator with three translational motion for pick and place applications. In Control, Automation and Robotics (ICCAR), 2016 2nd International Conference on (pp. 258-262). IEEE.

[C5] Elgammal, A.A.Abouelsoud, and S. Assal, "Fuzzy logic-based gain scheduling of exact feedforward linearization controller for magnetic ball levitation system," in '10th International Conference on Control' United Kingdom Automatic Control Council (UKACC)

[C6] Manar Lashin, Abdullah T. Elgammal, Ahmed Ramadan, A. A. Abouelsoud, Samy F. M. Assal and A. Abo-Ismail, "Fuzzy-based Gain Scheduling of Exact Feed Forward Linearization Control and Sliding Mode Control for Magnetic Ball Levitation System: A Comparative Study", 2014 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2014- THETA 19th edition, Cluj-Napoca, Romania, May 22-24 2014

Patents

[P1] "Hoverbike has Two Systems Aerial and Ground" by Dr. Abdullah Elgammal and Dr. Manar Lashin, filling no 1007/2020, Date:12/07/2020 Place: Egypt.

[P2] "Novel 3D Translational Pantograph Manipulator" by Mohamed Fanni, Eng. Mahmoud Magdy, Abdalla Elgammal and Manar Lashin Filling number: 518/2016, Date:27/03/2016 Place: EGYPT