**CURRICULUM VITAE**

**Omar Salah Eldin Mahmoud**

Lecturer, Mechanical Eng. Dept., Assiut University, Egypt

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**Research Interests**: Assistive devices, Mechatronics, Robotics, programing language.

**EDUCATION**

* B.Sc. in Mechatronics *section in Mechanical Engineering,* Department, Faculty of Engineering, Assiut University, Assiut, Egypt. With commutative average grade distinction with honor's degree, 2002 – 2007.
* M.Sc. in Mechatronics and Robotics Engineering, Innovation Design Engineering School, Egypt-Japan University of Science and Technology, Egypt, 2010-2012.
* PhD. in Mechatronics and Robotics Engineering, Innovation Design Engineering School, Egypt-Japan University of Science and Technology, Egypt, 2012-2015.

**Employment History:**

2015-Now Lecturer, Mechanical Eng. Dept., Assiut University, Egypt

2012-2015 PhD. student, Department of Mechatronics and Robotics, E-JUST.

2013-2014 Exchange Researcher, Waseda, Japan.

2010-2012 M.Sc. student, Department of Mechatronics and Robotics, E-JUST.

2007-2010 Teaching Assistant, Mechanical Eng. Dept., Assiut University, Egypt.

**Training Experience**

-Training in AZFC.CA Company of Egypt (2003 summer).

-Training in Sugar Company and integrated industries (2005 summer).

-Training in Aluminum Company of Egypt (2006 summer).

- Training in Aleppo University of Syria (2006 summer).

- Training in Kyushu and Waseda University of Japan (2011 summer).

**Teaching Experience**

1. Assiut University, Faculty of Engineering, Mechanical Eng. Dept., Assiut, November 2007 till February 2010.

**Courses Taught:**

* Engineering drawing
* Machine drawing and construction
* Fluid mechanics
* Introduction in Mechatronics
* Mechatronics system design
* Control
* Plc
* Microcontroller
* Electronics circuits.
* Modeling and simulation of dynamics system
* Mechatronics laboratory.

**Co-Supervising Research Projects**

* Assisted in supervising B.Sc. projects for undergraduate students (Mechatronics section)
* supervising robocon projects for undergraduate students (2009)

**Honors and Awards**

* Prof. Dr. saadat prize for distinct student in thermodynamics (3rd Year).
* My team won third place in the competition robocon Egypt 2009
* The distinct student over the five years in the faculty of Engineering, Assiut University, Assiut, Egypt
* Egypt Government Research Scholarship, 2010. (*M.Sc. and Doctoral )Research Fellowship, (five Years).* Ministry of Education,
* Short-Term Travel Grants to Syria in Student exchange program for Arab student.
* Short-Term Travel Grants to Japan Sponsored by Kyushu University, Japan
* Long- Term travel grants to Japan Waseda university.

# Technical Skills

# Good in designing and developing microcontroller based solutions.

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# Languages/Tools: C++, Fortran.

# Simulation Tools: MATLAB and SimuLink.

# CAD: Solidworks

# Microcontroller: Pic, and Motorola.

* + Hardware Analog and Digital circuit design and testing, microcontroller based control system.
  + Plc

# Language

* + Arabic (native),
  + English, First foreign language

# Publications

# Omar Salah, Ahmed Ramadan, Salvatore Sessa, Ahmed Abo-Ismail, Makasatsu Fujie, Atsuo Takanishi “ANFIS-based Sensor Fusion System of Sit-to-Stand for Elderly People Assistive Device” in International Journal of Automation and Computing, 2013.

# Omar Salah, Ahmed A. Ramadan, Salvatore Sessa, Ahmed M. R. Fath El-Bab, Ahmed Abo-Ismail, M. Zecca, Yo Kobayashi ,A. Takanishi, M. Fujie “Sit to Stand Sensing Using Wearable IMUs Based on Adaptive Neuro Fuzzy and Kalman Filter” in IEEE/EMBC 2014 Healthcare Innovations and Point-of-Care Technologies Conference(HICPT'14) , Seattle, WA on October 8-10, 2014.

# Ahmed Asker, Omar Salah, Ahmed Fath El-Bab, Ahmed Ramadan, Samy Assal, Salvatore Sessa and Ahmed Abo-Ismail “ANFIS Based Jacobian for a Parallel Manipulator Mobility” in IEEE 2014 UKACC 10th International Conference on Control (Control 2014), U.K., July 2014.

# Omar Salah, Ahmed Asker, Ahmed M. R. Fath El-Bab, Samy M. F. Assal, Ahmed A. Ramadan, Salvatore Sessa, and Ahmed Abo-Ismail “Development of parallel manipulator sit to stand assistive device for elderly people” in IEEE Workshop on Advanced Robotics and its Social Impacts (ARSO), Tokyo ,Japan 2013.

# Omar Salah, Ahmed Ramadan, Ahmed Abo-Ismail, Makasatsu Fujie and Atsuo Takanishi “Development of an assistive device for elderly people: Fuzzy Sensor Fusion Experimental Study” in IEEE International Conference on Robotics and Biomimetics (ROBIO 2012), Guangzhou, China,

# Salah, O.; Ramadan, A.; Sessa, S.; Abo-Ismail, A. “ A systematic approach for design a low-cost mobility assistive device for elderly people “ in Proceedings of Bioinformatics, Computational Biology and Biomedical Engineering (ICBCBBE ), International Conference on, pp 571-576., Paris, 2011.

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