

PERSONAL DETAILS

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Work place : Mechatronics Engineering Department, Faculty of Engineering, Assiut University, Assiut, 71516, EGYPT

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Google Scholar : <https://scholar.google.com/citations?user=aVtTxdwAAAAJ&hl=en&oi=ao>

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RESEARCH INTERESTS

- Optimization of motion planning and control systems.
- Industrial robotic systems.
- Energy saving based on automatic control systems.
- Adaptation control strategies and applications.
- Mechatronics system designs.
- Mechanical friction compensation of control systems.

WORK EXPERIENCES

Assistant Professor (Mar., 2025 – Present)
Mechatronics Engineering Department, Faculty of Engineering, Assiut University, 71516 Egypt

Research Fellow (Oct., 2022 – Mar., 2025)
Department of Mechanical Engineering, Toyohashi University of Technology, 441-8580 Japan

Research Fellow (Dec., 2021 – May, 2022)
Department of Mechanical Engineering, Toyohashi University of Technology, 441-8580 Japan

A project Assistant Professor (Mar., 2020 – Nov., 2021)
Department of Mechanical Engineering, Toyohashi University of Technology, 441-8580 Japan

Research Fellow (Oct., 2019 – Feb., 2020)
Department of Mechanical Engineering, Toyohashi University of Technology, 441-8580 Japan

Candidate of PhD MEXT scholarship (Oct., 2016 – Sep., 2019)
Department of Mechanical Engineering, Toyohashi University of Technology, 441-8580 Japan

Assistant Lecturer (Sep., 2014 – Mar., 2025)
Mechatronics Engineering Department, Faculty of Engineering, Assiut University, 71516 Egypt

Demonstrator (Mar., 2011 – Sep., 2014)
Mechatronics Engineering Department, Faculty of Engineering, Assiut University, 71516 Egypt

Demonstrator (Sep., 2008 – Mar., 2011)
Department of Mechatronics Engineering, Department of Mechatronics, El-Minia High Institute of Engineering and Technology, El-Minia, Egypt

EDUCATION

Doctoral Degree (Oct., 2016 – Sep., 2019)
Department of Mechanical Engineering, Toyohashi University of Technology, Japan
Thesis: Adaptive Nonlinear Control and Friction Compensation for Precision Motion and Energy Saving of Multi-Axis Industrial Systems.

Master Degree (Sep., 2011 – Sep., 2014)
Mechatronics Engineering Department, Faculty of Engineering, Assiut University, Egypt
Thesis: Experimental Evaluation of an Adaptive Fuzzy Control Scheme for Robotic Manipulators

Bachelor Degree (Sep., 2003 – July., 2008)
Mechanical Engineering Department, Faculty of Engineering, Assiut University, Egypt
Graduation Project
Electrical Elevator Control Using Programmable Logical Control
Commulative Average Grade: 83.89% (with honor's degree)

SOFTWARE SKILLS

- MATLAB programming
- Automation studio
- Control station program
- LABVIEW
- FORTRAN
- C/C++
- PLC siemens S7 programming
- Gazebo & ROS

JOURNAL REVIEWER

- Mechanical system and signal processing
- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Mechatronics
- ISA Transaction
- Mechatronics
- International Journal of Advanced Manufacturing Technology

TEACHING EXPERIENCES

- Automatic control
- Mechatronics laboratory
- Robotics systems
- Industrial process control
- Measuring instruments
- Mechatronics systems
- Electrohydraulic servo systems
- Engineering analysis

Supervisor of Undergraduate Projects

- Mechatronics design of X-Y-Z positioning system, 2008-2009
- Closed loop control of wire winder using torque limiting, 2009-2010
- Autonomous collision avoidance robot, 2009-2010
- Automatic drilling system using PLC, 2010-2011
- Material handling using SCARA robot, 2010-2011
- Mechatronics design of versatile robot gripper, 2013-2014
- Design and control of high speed two link robots, 2013-2014
- Design and control of high speed two link robots, 2014-2015

TRAINING

- PLC programming connected with sensors and motor drivers in siemens company, 2009
- SCADA system in siemens company, 2009
- CNC machine in siemens company, 2009
- Effective communication skills, Assiut University, Assiut, June 2011
- Legal aspects of the Universities, Assiut University, Assiut, July 2011
- Effective teaching, Assiut University, Assiut, July 2011
- Quality standards in teaching, Assiut University, Assiut, November 2012
- International publishing of research, Assiut University, Assiut, December 2013
- Research team management, Assiut University, Assiut, December 2013
- Training in oil production company, Egypt (2004)
- Training in aluminum company, Egypt (2005)
- Training in sugar and integrated industries company, Egypt (2006)

References

- Professor: Naoki Uchiyama
Department of Mechanical Engineering, Toyohashi University of Technology, 441-8580
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- Professor: Shigenori Sano
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- Professor: Ryosuke Horio
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