



Abdallah H. Elsherif, Ph.D.

Assistant Professor

*Department of Electrical Engineering
Faculty of Engineering (at Shoubra).
Benha University*

Research Interest

- Intelligent systems
- Mobile robotics
- Sensors-data acquisitions
- Industrial automation
- Control systems

Education

- 2009–2011 **Ph.D. External part**, *University of Guelph*, Guelph-Canada.
Dept. of system engineering, school of engineering university of Guelph.
- 2007–2009 **Ph.D. Internal part**, *Benha university*, Cairo.
Dept. of electrical engineering faculty of engineering at Shoubra.
- 2000–2004 **M.Sc.**, *Benha university*, Cairo.
Dept. of electrical engineering faculty of engineering at Shoubra.
- 1993–1998 **B.Sc.**, *Benha university*, Cairo.
Dept. of electrical engineering faculty of engineering at Shoubra.
Grade: Very good with honor degree (84.56 %)

M.Sc. thesis

- title *An Accurate Ultrasonic Range Measurement System*
- supervisors Assoc. prof. Mohamed T. Elawa and Dr. Ashraf M. Hafez
- description In this thesis, a design and implementation LabVIEW based ultrasonic range measurement system is introduced, where three different approaches for measuring the range are compared

Ph.D. thesis

- title *Intelligent Control System for a Mobile Robot via Internet*
- supervisors Prof. Simon X. Yang, Prof. Hala M Abd-Elkader and Assoc. Prof. Mohamed Tarek Elawa.
- description In this thesis, neural network dynamics and robot-vision fuzzy based approaches are proposed for real-time path planning and control of mobile robots systems, with the advantages of internet monitoring and control.

Work experience

Vocational

- 2012– **Lecturer**, *Faculty of engineering, at Shoubra Benha university, Cairo.*
Lecturer at the department of electrical engineering, teaching and developing electronics engineering courses, developing lab manuals, supervising undergraduate students, and participating in the exam works.
- 2009–2011 **Visiting scholar**, *University of Guelph, Guelph-Canada.*
- Visiting scholar to ARIS (Advanced Robotics and Intelligent Systems) to complete the external part of the Ph.D. study
 - Work as teaching assisting in teaching electric circuits course, helping in creating course materials, developing lab manuals, preparing laboratory experiments and participating in the exam works.
 - Attend some courses as audit:
 - Neuro-fuzzy and soft computing approaches
 - Robotics systems
 - Modeling and Simulation of dynamic systems
 - Neural networks
- 2005–2009 **Lecturer assistant**, *Faculty of engineering at Shoubra, Benha university, Cairo.*
Lecturer assistant at the department of electronics, communications and computer engineering.
Courses taught: fundamentals of electronic engineering, electrical circuits (1 and 2), electronics (1 and 2), industrial electronics, electromagnetic fields, wave propagation, antennas and fiber optics.
- 2005–2006 **Senior electronics and software engineer**, *ECT-Soft, Cairo.*
Part-time senior electronics and software engineer - industrial measurements and control systems consultation.
- 2000–2004 **Instructor**, *Faculty of Engineering at Shoubra, Benha university, Cairo.*
Instructor at the department of electronics, communications and computer engineering.
Courses taught: optical electronics, analog and digital measurements, printed circuits boards design, electronics 2 and electrical testing.
- 1999–2000 **Instructor**, *Air-defense college, Alexandria.*
Instructor at the department of engineering science.
Courses taught: semiconductor devices, electromagnetic fields and wave propagations and communication systems.

Miscellaneous

- 2010–2011 **Treasurer of the ESANA's Guelph chapter**, *ESANA, Guelph-Canada.*
Treasurer of the Egyptian Student Association in North America (ESANA) - Guelph chapter. I was elected by the graduate Egyptian students in Guelph university.

Awards and scholarships

- 2012 **Letter of Appreciation** from the quality assurance unit in the faculty of engineering at Shoubra as a result of organizing and teaching in a workshop titled "Using Latex for writing scientific papers"
- 2011 **Letter of appreciation from professor Stefano Gregori**, associate professor of analog integrated circuit design, department of system engineering, university of Guelph to thank and appreciate my work as teaching assistant in his course.
- 2010 **Annual best teaching assistant award**, electrical engineering department, faculty of engineering at Shoubra, Egypt. I have been selected by the 2010 graduates although I taught them early in their program before leaving to Canada.
- 2009 **Annual best teaching assistant award**, electrical engineering department, faculty of engineering at Shoubra, Egypt.
- 2009–2011 **Doctoral scholarship** from the Egyptian ministry of higher education to do the external part of my Ph.D. study in electronic engineering.
- 2005 **Annual best teaching assistant award**, electrical engineering department, faculty of engineering at Shoubra, Egypt.
- 2003 **Annual best teaching assistant award**, electrical engineering department, faculty of engineering at Shoubra, Egypt.
- 2000 **Letter** from the department of engineering science - air defense college for my teaching performance during my mandatory military service.
- 1998 **Best B.Sc. graduates award**, Egyptian syndicate of engineers, Cairo, Egypt.
- 1998 **Graduation award** for being ranked the second on my class (50 students), Faculty of Engineering at Shoubra, Egypt.
- 1993–1998 **Annual excellence award** for being ranked the first/second on my class, faculty of engineering at Shoubra, Egypt.

Graduation projects which I served as an associate advisor:

- 2009 Speech recognition- speech activation control.
- 2008 Internet based control for automated industrial systems.
- 2007 Image acquisition automated inspection.
- 2007 A data acquisition System for monitoring ECG signal in LabVIEW.
- 2006 Design and implementation of an ultrasonic based tracking system.
- 2005 A virtual instrumentation based automatic belt conveyor System.
- 2005 Design of home security system.
- 2004 A digital control System applied to home automation.
- 2002 Ultrasonic based ranging systems.

Technical Workshops

- 2011 Toronto, Canada Developing, Monitoring and control systems with LabVIEW and compactRIO.
- 2006 Cairo Egypt Computer based measurement and automation for industrial applications.
- 2005 Cairo Egypt Step by step data acquisition.

Languages

Arabic **Mother tongue**
English **Very good**

Certifications

- Certified LabVIEW Associate Developer (CLAD)

Publications

- 1 A. Hammad, S. X. Yang, M. T. Elewa, H. Mansour, and S. Ali, “Virtual instrumentation based systems for real-time path planning of mobile robots using bioinspired neural networks,” *International Journal of Computational Intelligence and Applications*, vol. 10, no. 3, pp. 357–375, 2011.
- 3 A. Hammad, A. Hafez, and M. T. Elewa, “A labview based experimental platform for ultrasonic range measurements,” *International Journal on Digital Signal Processing, DSP. ICGST*, vol. 6, no. 2, pp. 1–8, 2006.
- 4 A. Hammad, A. Hafez, and M. T. Elewa, “An accurate technique for ultrasonic range measurement in a noisy environment,” in *Second International Conference on Intelligent Computing and Information Systems, ICICIS*, (Cairo, Egypt), pp. 238–244, March 2005.