



Prof. Dr. Yehia El-Mashad

President of Delta University

PERSONAL

Marital Status : Married.
Nationality : Egyptian.
Language : Arabic, English,
French.

CONTACT



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EDUCATION

- **1983:**
Ph.D. in Automatic Control and Systems, University of Paul Sabatier, Toulouse, France.
- **1981:**
Master of Science in Advanced Automatic Control and Systems, Institute Nationale de Science Appliques, University of Paul Sabatier, Toulouse, France.
- **1980:**
Higher Diploma in Advanced Automatic Control and Systems ENSAE, University of Paul Sabatier, Toulouse, France.
- **1979:**
Specialization Diploma in Avionics, ENSAE, Toulouse, France.
- **1975:**
B.Sc. in Aeronautical Engineering, Cairo University.

EXPERIENCE

- **1975-1978:**
 - **Lecturer** at the Arab Institute for Aerospace Technology, Arab Organization for Industrialization.
- **1979-1983:**
 - **Lecturer/Researcher** at the High National School for Aeronautics and Space, ENSAE, Toulouse, France.
- **1984-1989:**
 - **Assistant Professor** at Shoubra Faculty of Engineering, Zagazig University.
 - **Adjunct professor** at the Military Technical College, Benha Institute of Technology, Air Academy, Aeronautical Dept., Cairo University.
- **1989-1994:**
 - **Head** of the Mechanical Engineering- Automatic Control Department – and **Vice Dean** at the College of Technology at Al-Ahsaa, Kingdom of Saudi Arabia.
 - **Head** of the Committee for Curricula Development for the colleges of Technology, KSA in collaboration with GTZ, Germany.
- **1994-1999:**
 - **Associate Professor**, Faculty of Engineering at Shoubra, Zagazig University.
 - **Consultant** at the Ministry of Education for Multimedia and Technical Education, IT and technical education.
 - **General Supervisor** and **founder** of the Experimental Advanced IT Technical School at Ismailia.
 - **Adjunct professor** at the 10th of Ramadan Higher Institute.
- **2000-2001:**
 - **Vice Dean** of Delta Academy of Science.
- **2001- 2006**
 - **Dean** of the Higher Institute for Computers and Information systems, Delta Academy of Science, Mansoura.

- **2006- 2010**
 - **Vice Dean** at the Faculty of Engineering at Shoubra, Benha University and General coordinator of the Industrial Engineering Program.
- **2010-2014**
 - **Dean** of Delta Higher Institute for Computers.
- **2014-2015**
 - **Dean** of delta higher institute for engineering.
- **2015-now**
 - **President** of Delta University for Science and technology.

PUBLICATIONS

Published over 60 Articles and Scientific Papers in National and International Journals and Periodicals in the area of: Automatic Control-Vibration-Robotics-Information System-Operation Researches-e-Learning.

SAMPLE OF RECENT PUBLICATIONS

1. **Dead Time Compensation and Control of a Non-Linear Chemical Process**; Journal of engineering and applied science, vol 43, Feb. 1996, pp 187-21, Faculty of Engineering, Cairo University.
2. **Fuzzy Control of Highly Sensitive Dynamic Behavior of Variable Displacement Axial Piston Pump**; 10th International Conference on Applied Mechanics and Mechanical Engineering, 14-16 May 2002, Military Technical College, Cairo, Egypt.
3. **Theoretical and Experimental Sensitivity Analysis and Control of Hydrostatic Transmission System**; 10th International conference on Aerospace Science and aviation Technology, ASAT 10-13-15 May 2003, Military Technical College, Cairo, Egypt.
4. **The effect of Pipe Installation on the dynamic characteristics of variable displacement axial piston pump**; Mansoura Engineering Journal of Faculty of engineering, Mansoura University, Vol. 28, NO. 2, June 2003.

5. **Robust Control of axial Piston Pump by Eigen Vector Assignment and Sensitivity Minimization**; Scientific Bulletin, Faculty of engineering, Ain shams University, Vol. 38, No 2, June 30, 2003, pp 599-612.
6. **Fault Detection for Hydraulic Pump Using Wavelet Analysis Technique**; Scientific Bulletin, Faculty of engineering, Ain shams University, Vol . 38, No 3, September 30, 2003.
7. **Fault Detection: Classification through Vibration Monitoring using Artificial Neural Networks**; Engineering Research Journal, Faculty of Engineering, Meoufia University vol 27 No. 1, January 2004, pp 1 -8.
8. **Condition Monitoring and Fault Diagnosis of Rotating Machinery using wavelet and Neural Networks approaches**, Engineering Research Journal, Faculty of Engineering, Meoufia University vol 27 No. 1, January 2004, pp 15-24.
9. **Fuzzy Trajectory Control of a Pneumatic Servo-Mechanism**; **Engineering Research Journal, Faculty of Engineering**, Mataria, Helwan University, vol 81, June 2002, PP 164-173.
10. **Fuzzy Logic control for Energy management of Air Conditioning System Based on Outdoor Conditions**; International Conference for Information and Communication, ICI-2, Sopron-Hungary, 10-12 October 2002.
11. **Knowledge Base controller to Condensate the Roundness in the Cylindrical Plunge Grinding**, Mansoura Engineering Journal of Faculty of engineering, Mansoura University, Vol. 28, NO. 2, June 2003 PP M23-M36.
12. **Decision Support Systems Using Artificial Neural Networks in Predicting Single Time Point Survival**; Mansoura Engineering Journal of Faculty of engineering, Mansoura University, Vol. 28, NO. 2, June 2003 PP 412-424.
13. **A modified Deterministic heuristic Algorithm for solving assembly line balancing problem.**; The annual Conference ISSR, Cairo University, 4-6 December 1999, vol 34, Part V.

14. **Self-Learning Control of the DC motor by neural Network**; Electronic engineering Bulletin, Faculty of Engineering at Menouf, Meoufia University, No 7, January 1994, PP 325-334.
15. **A Modified Stochastic Heuristic Algorithm for Solving the Assembly Line Balancing Problem**; The 27th Annual Conference, ISSR, Cairo University, Egypt, Vol. 27, 1992.
16. **Estimation of Asymptotic stability Region of Non-Linear Rotor Bearing System**; Ain Shams Bulletin Vol. 24, August 1989.
17. **Optimal Guidance and Control of Lunch Vehicles and Ballistic Missiles**, rt International Conference MTC, May 1990.
18. **Correlation Between Vibration Measurement and Surface Quality in Grinding Operations**; Faculty of Engineering Mataria Bulletin, Helwan University, Vol 11, 1989.
19. **Dynamics and Optimal control of a Liquid Phase Reactor**; 4t international Conference sponsored by Faculty of Engineering at Shoubra and Leister University, March 1989.
20. **Towards A Practical E-Learning Implementation in Higher Education Using Open Source Software**; ICI 7, Mansoura, Egypt, October 2007.
21. **المؤتمر العلمي الثاني للتربية النوعية نحو تعليم متميز ، البحرين ، ٢٩-٣٠ نوفمبر ، البحرين ..**
22. **Improving the Quality of Education in Higher Schools by Developing the Students Capabilities using Data Mining Techniques**, Delta university scientific journal, Egypt, September 2018.

ACADEMIC SUPERVISION

Supervised more than Twenty Degrees of Doctor of Philosophy (Ph. D.) and Master of Science (M. Sc.) in the above-mentioned fields.

1. **Study of the behavior of Machine tools through Vibration Analysis; *M Sc*, 1987.**
2. **Static and Dynamic analysis of Semi-trailers by finite element methods; *M Sc*, 1988.**
3. **Design of a Reduced Scale Painting Robot; *M Sc*, 1990.**
4. **Simulation of Inventory Control-Case study to a specific local industry; *M Sc*, 1989.**
5. **Design, Modeling and Control of a 4 d.o.f. painting Robot; *M Sc*, 1989.**
6. **Condition Monitoring Through Vibration Analysis; *M Sc*, 2003.**
7. **Predictive Maintenance of vertical Pumps through Vibration Analysis; *M Sc*, 2004.**
8. **Predictive Maintenance through Vibration Analysis using Artificial Neural Networks; *M Sc*, 2004.**
9. **Use of Vibration Analysis for Maintenance Planning in Petroleum Industries in Kuwait; *M Sc*, 2003.**
10. **Control of Fluid Power Systems for Force Monitoring; *M Sc*, 2007.**
11. **Parametric Programming for CNC M/T; *M Sc*, In progress.**
12. **Trajectory Control for Industrial Robot; *Ph D*, In Progress.**
13. **Robust Control in Hydrostatic Transmission System; *Ph D*, 2003.**
14. **Optimal design of Articulated Joint; *Ph D*, 2002.**
15. **Active Suspension for Vehicles; *Ph D*, 2001.**
16. **Control of Axial Piston Pump; *Ph D*, 2002.**
17. **Predictive Maintenance for rotating Machines by Vibration Analysis; *M Sc*, 2003.**
18. **Optimal Performance of Sea Water Desalination using Solar Energy; *Ph D*, 1991.**

- 19. **Performance of Assembly Lines balancing for Cars Factories; *Ph D*, 1990.**
- 20. **Control of Fluid Power using Genetic algorithms; *M Sc*, In Progress.**
- 21. **Mechanical Power Energy Management Systems; *Ph D*, In Progress.**

TEACHING EXPERIENCE

- At the Faculties of Engineering (Shoubra-10th of Ramadan, 6th of October, Cairo, Military Technical College, BUE, Arab Academy.
- Visiting Professor at Texas A&M International University-System Engineering Department to teach 2 courses from June to August 2010.
- Computer Programming -Numerical Analysis-Automatic Control and System Dynamics and Vibration - System Analysis-Measurement -Robotics -Fluid Power System-Programmable Logic Controllers- -Computer Applications in Industrial Engineering - Operating Systems-Project Management-Reliability.
- At the Higher Institutes/ Faculty of Computer Science and Information Systems.
- IT-Computer Programming (C++-Java-Visual Basic-..)-Internet Web Development (HTML)-System Analysis and Design -Computer Networks-Software Engineering-Digital and Logic Design-Logistics Information Systems-Project Management.

ACTIVITIES

- Established Automatic Control Lab. Funded from a Project with the Egyptian Union of Contractors.
- Organized some seminar in the industries in the field of Fault Diagnoses Through Vibration Analysis With B&K Company.
- Organized Two Seminars in Computerized Numerically Controlled M/T with the Arab Organization for Industrialization and a visiting professor from American university.
- Participated in a Project for Energy Management Funded from The FRCU in the Supreme Council for Universities in Egypt.

- IT Consultant for the General Organization for Educational Building, General Organization for Cooperative Building, Ministry of Irrigation, and Some Private Organization.
- Participated in establishing the Experimental Advanced School for Information Technology in Ismailia, Principal Consultant for this Pioneer Project in the Technology Valley in Ismailia Responsible About the Business Plan, The Infrastructure, Equipment, Curricula Development Teacher Training Program...
- Participated in establishing the College of technology at AL Ahsaa -, Equipment, Laboratory, Curricula Development, Faculty Recruiting, and all the Administrative Work for The College Comprising Five Departments.
- Consultant at the Ministry of Education for Introducing IT and multimedia in Education.
- Member of Committees at the Ministry of Education for the development of technical education and technical institutes.
- Member of a Committee for Education Development Program in the ministry of higher education in a project to increase the capacity of enrolment in Higher Education by establishing distinguished Technical Faculties.
- Participated in establishing the Delta Academy/University of Science in Mansoura, which includes Planning, Curricula Development, Faculties Recruiting, training, ...
- Contributed in building alliances in academic and cultural agreement with some European, Malaysian and American Universities.
- Vice chairman for the International Conference for Information and Communication Technology ICI 1, ICI 2 and ICI 3 in Hungary and in Egypt.
- Vice Chairman for the 1st International Conference on Bio-engineering and Bio-technology, Cairo, May 2004.
- General Secretary for two joint Conferences with Leicster Polytechnics and Shoubra Faculty of Engineering in 1985 and 1988.

IT SKILLS

- Microsoft Office: Access – Excel -Power point – Word.
- MS Project- SPSS.
- C++-Java-Fortran-Visual Basic.



- HTML-Front Page.
- MATLAB.

WORKSHOPS AND TRAINING IN THE FIELD OF QUALITY ASSURANCE AND ACCREDITATION.

- **March 2008:**

Peer Reviewers for the new Programs, Faculty of Agriculture, Cairo University.

- **June 2008:**

Peer Reviewers for Quality Assurance and Accreditation, Supreme Council of Universities.

- **December 2006:**

Developing electronic courses, Suez Canal University.

- **May 2008:**

Program Assessment Methods, Faculty of Engineering, Cairo University.

- **February 2009:**

Quality Assurance and Accreditation of E-Learning, National Agency for Quality Assurance and Accreditation in Egypt.

- **June 2009:**

Quality Assurance and Accreditation for Engineering ABET, National Agency for Quality Assurance and Accreditation in Egypt.

- **October 2008:**

Peer Reviewers for Quality Assurance and Accreditation QAAP2, Supreme Council of Universities.

- **13-16 Feb. 2010:**

TOT (Strategic Planning), Centre for FLDP, Cairo, Egypt.

ASSESSING AND EVALUATING QUALITY ASSURANCE AND ACCREDITATION PROJECT

- **January 2008:**

Establishing an Internal System for Quality Assurance QAAP2, Engineering Science and Education, Tanta, Suez Canal, Menia, Benha.

- **July 2008:**

Establishing an Internal System for Quality Assurance QAAP2, Electronics, Engineering, Menoufia, Ismalia-Suez Canal, Ismalia-Suez Canal, Ain Shams.

- **August 2008**

Continuous Improving and Quality for Accreditation CIQAP and (Site Visit), Engineering, Alexandria.

- **August 2008**

Continuous Improving and Quality for Accreditation CIQAP and (Site Visit), Engineering, Suez Canal.

- **13 October 2008**

Peer Reviewer for the Establishment of an Internal System for Quality Assurance QAAP2, Art, Helwan.

- **23 October 2008**

Peer Reviewer for the Continuous Improving and Quality for Accreditation CIQAP project and (Site Visit), Agriculture, Assiut.

- **March 2009**

External Auditor and Evaluator for the Faculty of Computer Sakr at Libya, Computer, Libya.

- **21-24/11/2009**


QAAP2, Institute for Graduate Studies and Research, Alexandria.

PEER REVIEWER FOR, QAAP, CIQAP AND NEW PROGRAMS

- **17 April 2008:**
Mechatronics, Engineering, Menia.
- **20 April 2008:**
Gas and Petrol, Engineering, Suez Canal.
- **November 2008:**
New programs at Cairo University, Engineering, Cairo.
- **November 2009:**
Energy and Power, Engineering, Mataria.
- **9 December, 2009:**
Manufacturing Engineering, Engineering, Ain Shams.
- **15 December 2009:**
Mechatronics, Engineering, Menia.
- **March 25 2008:**
Mechanical Design Program, Engineering, Cairo.
- **From February 2010 – now: Every Year**

Nominated by the Higher Education Enhancement Project HEEP to provide technical support to 5 colleges in Ain Shams university preparing for Quality assurance and Accreditation, Pharmacy, Engineering, Medicine, Women and Alson, Ain Shams.

ACTIVITIES FOR HIGHER EDUCATION ENHANCEMENT PROJECTS

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- Member of the committee for Developing an internal system for Quality Assurance for the faculty of Engineering at Shoubra.
 - Director of the Unit of Quality at the faculty of Engineering at Shoubra.
 - Director of the e-learning Unit at the faculty of Engineering at Shoubra.
 - Member of Board of e-learning center for the University of Benha.
 - Developing Curricula for Industrial Engineering and Mechatronics in the Faculties of Engineering for some state and private institutions
 - Member of committee for e-learning-technical and vocational training at the ministry of Education.
 - Coordinator for the steering committee for the joint program between Benha and Texas A&M universities.