

Curriculum Vitae

Amr B. Eltawil



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Degrees:

June 1992	BSc Production Engineering – Alexandria University
January 1998	MSc Production Engineering – Alexandria University <i>Application of TQM in Egyptian Industry.</i>
February 2003	PhD Production Engineering – Alexandria University <i>Petri Net modeling and analysis of Serial Production Lines</i>

Professional Experience:

1993 – 1997	Teaching Assistant – Production Engineering Department, Faculty of Engineering, Alexandria University, Egypt
1993 – 1996	P/T Research Engineer – Elwany Consultants, Alexandria, Egypt
1998 – 2000	Visiting Scientist – Department of Industrial Engineering, University of Miami, Florida, USA.
1999 – 2000	P/T information technology consultant – Vintex Quality Care, Miami, Florida, USA.
2001 – 2002	Assistant Lecturer – Production Engineering Department, Faculty of Engineering, Alexandria University, Egypt
2003 – date	Assistant Professor – Production Engineering Department, Faculty of Engineering, Alexandria University, Egypt
2003 – 2006	Visiting Professor – Arab Academy for Science and Technology – Industrial and Management Engineering Department
Jan - Feb 2004	Visiting Lecturer – Beirut Arab University – Lebanon

Publications

- 1- Total Quality Management In Egypt – A Survey, Proceedings of the 1996 Pacific Conference on Manufacturing, Seoul, Korea, 1996.
- 2- Manufacturing Systems Modeling, Design and Evaluation Using Petri Nets, Oral presentation, INFORMS meeting, Salt Lake City, USA, 2000.
- 3- Deadlock detection and avoidance in closed flexible flow lines using colored Petri nets, Proceedings of the 8th Cairo university international conference on mechanical design and production, Cairo, Egypt, 2004
- 4- Performance analysis of open production lines using colored Petri nets, Proceedings of the 8th Cairo university international conference on mechanical design and production, Cairo, Egypt, 2004
- 5- Simulation modeling and analysis of AGV operated cellular manufacturing system, Proceedings of the 8th Production Engineering, Design and Control Conference, PEDAC'2004, Alexandria, Egypt, 2004.
- 6- Integrated production-inventory planning in an enterprise resource planning environment, Proceedings of the 8th Production Engineering, Design and Control Conference, PEDAC'2004, Alexandria, Egypt, 2004.
- 7- A proposed heuristic for the multi-buyer joint replenishment problem, Proceedings of the 36th International conference on computers and Industrial Engineering, Taipei, Taiwan 2006

- 8- Integrated production-inventory planning with make to order and make to stock considerations, Proceedings of the 36th International conference on computers and Industrial Engineering, Taipei, Taiwan 2006
- 9- Multi-Commodity multi-period supply chain network design, Proceedings of the 37th International conference on Computers and Industrial Engineering, Alexandria, Egypt 2007
- 10- Simulation Optimization of an (s, S) Inventory Control System with Random Demand Sizes, Demand Arrivals, and Lead Times, Proceedings of the 37th International conference on Computers and Industrial Engineering, Alexandria, Egypt 2007

Professional Skills:

MIS/DSS Developer	Professional Management Information Systems (MIS), Decision Support Systems (DSS) and database applications developer using MSAccess [™] , MS [®] SQL Server [™] , and MSOffice [™] .
Simulation	Professional system modeling and analysis using discrete event simulation packages Arena [™] , and DesignCPN [™] .
Data Analysis	Professional statistical data modeling and analysis, and data mining, SPSS and Minitab.
CMMS	Computerized Maintenance Management Systems implementation and training for MP2.
Project Management	MS Project [™] professional user and trainer.

Languages

Arabic (mother tongue), English (fluent), French (very good).

Teaching Experience

- Supply chain management; Production engineering; Operations research.
- Facilities planning; Inventory management; Production planning and control; Engineering economy.
- Work design and measurement; Ergonomics and human factors engineering.
- Safety engineering and safety systems.
- Simulation modeling and analysis; Management information systems; Decision support systems design and development.
- Maintenance planning and management; Total productive maintenance; Reliability centered maintenance; Project planning and management; Computerized maintenance management systems.
- Data modeling and statistical analysis for decision making; design of experiments and Taguchi methods.
- Total quality management; Quality cost analysis.
- Industrial feasibility studies: supervised several undergraduate and postgraduate studies in the production of garments; air conditioners production; steel sheets; automotive filters; light fittings; furniture; emulsion paints; corrugated sheet and cartoon boxes; woven plastic sacks; and food processing and snacks.

Recent Consultations

- *Coral Gables Hospital, Florida, USA* Design, development and implementation of the computerized personnel appraisal system, 1999.
- *Foundation Health, Florida, USA* Design, development and implementation of the computerized Medicaid customer relationship management system, 2000.

- ***Baby Coca, Alexandria, Egypt*** Facilities design for the new baby garments production plant, 2003.
- ***United Food Packing, Burg El Arab, Egypt*** Industrial and Environmental Hazards assessment, 2005.
- ***Egyptian Swedish Welding Electrode Company ESWECO, Elamerya, Egypt*** Facility planning for the coated electrode, welding wire and flux powder plants, 2006.

Training Courses

- ***Export Development Center - Sadat City - Egypt*** Modern maintenance management training course, 2003.
- ***Ceramica Prima – Sadat City- Egypt*** Maintenance Planning and Management, 2004
- ***Unilever Mashreq – Alexandria - Egypt*** Supply Chain Awareness, 2003.
- ***Abu Kir Fertilizers – Alexandria – Egypt*** Production management and inventory control, 2004.
- ***Unilever Mashreq – Alexandria - Egypt*** Supply chain modeling and Analysis, 2004.
- ***Engineering Automotive Company – Cairo – Egypt*** Production systems appraisal including planning and control, ERP, safety systems and accident prevention, quality control system, 2005.
- ***HADEED (SABIC) – Jubail – Saudi Arabia*** Fall Protection, ISCOA Training Center, 2005.
- ***HADEED (SABIC) – Jubail – Saudi Arabia*** Design and Implementation of Safety Signage systems, ISCOA Training Center, 2005.
- ***Saudi Electricity Company – Riyadh – Saudi Arabia*** Computer Based Maintenance Planning and Management, ISCOA Training Center, 2005.
- ***General Organization for Imports and Exports Control – Nathan Associates Inc. – Egypt*** Introduction to Project management
- ***Alexandria National Iron and Steel company (ANSDK) – Alexandria – Egypt*** Basic Statistics, 2006.
- ***HADEED (SABIC) – Jubail – Saudi Arabia*** Accident Prevention, ISCOA Training Center, 2006.
- ***Al-Watania Poultry – Kassim – Saudi Arabia*** Supply Chain Management for Purchasing executives, ISCOA Training Center, 2006.
- ***Bahrein National Gas company (BANAGAS) – Mannamah - Bahrein*** Safety in Industrial Plant, ISCOA Training Center, 2006.
- ***HADEED (SABIC) – Jubail – Saudi Arabia*** Handling Hazardous Chemical Materials, ISCOA Training Center, 2006.
- ***ISCOA for Industry and maintenance (a siemens company)*** – Time management, 2007.
- ***ISCOA for Industry and maintenance (a siemens company)*** – Strategy Development, 2007.
- ***Qatar Petroleum – Doha – Qatar*** Handling Hazardous Chemical Materials, ISCOA Training Center, 2008.
- ***Alexandria Petroleum Maintenance Company (Petromaint)*** – Turnaround, and shutdown planning – Alexandria – Egypt, 2008.

Current Research Projects

- ***Integrated Production Planning and Inventory Control***, Master Thesis, expected finish 2008.
- ***Production planning in Mixed Push/Pull in garments industry***, Master Thesis, expected finish 2008.
- ***Integrated Production and distribution planning in two echelon systems***, Master Thesis, expected finish 2008.
- ***Logistics and Operations modeling and analysis in garbage collection operation***, BSc project, expected finish date 2008 – Alexandria – Egypt
- ***Simulation Modeling and Analysis of (s, S) inventory control systems***, MSc Thesis, expected finish date 2008.

Supervised Master Thesis

- ***Multi-Commodity Multi-Period Supply Chain Network Design***, Aly Samy Megahed, 2007.

Previous Research Projects

- ***Coca Cola Egypt, Elamerya, Egypt***
 - Optimum Fleet Size for distribution system, 2005.
 - Automated Master Production Scheduling for glass and Pet bottling continuous production lines, 2006.

- ***Unilever Egypt, Alexandria, Egypt***
 - Distribution network redesign, 2006-2007.
 - Automation and implementation of a mater production scheduling system, 2007.
 - Optimum Master Production Scheduling and operations Scheduling System in Batch Production System using MSExcel, 2006.
 - Truck loading and dispatching, 2005.

- ***FAC Filters, Burg Elarab, Egypt***
 - Production line balancing using simulation, 2007.
 - MRP implementation using Fourth Shift, 2007.
 - Automated Master Production Scheduling System for Automotive Filters Manufacturing Plant, 2006.

Public Seminars and events

2007	<i>Organizing Committee Chair, the 37th International conference on Computers and Industrial Engineering, Alexandria, Egypt, www.cie37.net</i>
2007	<i>Engineering Work Ethics</i> , Faculty of Engineering, Alexandria University
2007	<i>Engineer required Soft skills</i> , Faculty of Engineering, Alexandria University
2006	<i>Engineering Work Ethics</i> , IEEE Gold, Made in Egypt Contest, Ein-Shams University
2006	<i>Engineer required soft skills</i> , Faculty of Engineering, Alexandria University
2006	<i>Product design and development</i> . IEEE Gold, Made in Egypt Contest, Cairo University, and Faculty of Engineering, Alexandria University
2004	<i>Engineering Work Ethics</i> , PreEinstein Symposium, IEEE Gold, Bibliotecha Alexandrina, Alexandria, Egypt

Other Activities and volunteer work

2002 – 2003	Egyptian Fencing Federation management board member, and head of the national and international competitions committee.
2003 – date	International fencing referee – Epee – Federation Internationale D’Escrime – www.fie.ch
2004 – date	Alexandria Fencing Club Management board member, and head of the Egyptian fencing federation competitions and information committee.
2005 – date	Member of the technical committee of the Mediterranean Fencing Confederation.

Amr B. Eltawil
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