

El-Awady ATTIA (15)



Assistant Professor

(elawady.attia@gmail.com)
Phone : (+201019285558)

Objective To work with a reputed university as an assistant professor (for instance), that will provide me the oportuinties to utilize my teaching, research and administration skills that will help me to develop and grow my career.

Education

Ph.D. Degree
Toulouse University / National Polytechnic Institute of Toulouse (INPT)/ ENSIACET/
Industrial engineering department,
Toulouse, France
April/2013

M.Sc. Degree
Benha University
Cairo, Egypt
June/2006

B.Sc. Degree
Benha University
Cairo, Egypt
1998

Experience A polyvalent profile in industrial, engineering acadmic work and administration fields

Professional Career Experience

August 2014- currently Responsible of mechanical technology department Al-Ameeria Integrated Technical Cluster Educational Development Fund (EDF), Cabinet of Minister.

August. 2013 – currently Lecturer at the mechanical engineering department - Shoubra faculty of engineering, Benha University, Egypt.

January 2009- April 2013 PhD student at Toulouse University / INPT/ ENSIACET/ LGC-UMR-CNRS 5503/PSI

December 2006- July 2008 Participating with a team-work in evaluating the equivalent monetary value of two factories (includes pricing of assets, production machines, tools, utilities...). The first factory produces artificial leather, and the second produces all types of zippers.

July. 2006 – Dec.2008 Assistant lecturer, mechanical and production engineering department - Shoubra faculty of engineering, Benha University, Egypt.

Sept. 1999 – June 2006 Tutor, mechanical and production engineering department - Shoubra faculty of engineering, Benha University, Egypt.

October 2004- May 2005 Working with "ABB transformers production in Egypt" to collect the required data for a research on balancing assembly lines.

Nov. 1998 – Dec. 2002 Part-time production and design engineer at "Tawakol Metal Industries: producer of parts by sand casting of grey cast iron, ductile iron, aluminium and bronze", Shobra-Elkhema, Egypt.

July 1997 Training at "Alexandria National Iron and Steel Company (ANSDK)", Alexandria, Egypt.

Teaching experience

Fall 2014	Integrated technical Education clusters –(fulltime)	- Maintenance Technology Management
	Benha University Faculty of engineering (Shoubra)(Fulltime)	- Computer applications in industrial engineering - Computer aided manufacturing
	Modern Sciences and Arts University (MSA) Faculty of	- Engineering Operations Research - Production systems design and

	engineering (Part-time)	analysis
Spring 2014	Benha University	- Project management
	Faculty of engineering (Shoubra) (Fulltime)	- Maintenance management - Product design and development
	Modern Sciences and Arts University (MSA) Faculty of engineering (Part-time)	- Maintenance planning and control - Production systems design and analysis
	Integrated technical Education clusters – (Alameria) - (Part-time)	- Managing the work of individuals and teams - Manufacturing Planning and Scheduling Principles
	Benha University Benha Faculty of engineering (Postgraduate)	- Tools of total quality - Production and operations management
Fall 2013	Benha University Faculty of engineering (Shoubra) (Fulltime)	- Production information systems - Computer applications in industrial engineering - Project management - Computer aided manufacturing
	Modern Sciences and Arts University (MSA) Faculty of engineering(Part-time)	- Maintenance planning and control - Production systems design and analysis.
2000 - 2008	Benha University Faculty of engineering (Shoubra) (Fulltime)	Assisted in teaching the following courses: - Workshop and production engineering - Stress and Structural Analysis, - Mechanical Tests, - Machine elements and Gear box design, - Dynamics of machines, - Mechanical Production (Sand Casting , Metal Forming), - Automatic Control, System Dynamic and Mechanical Vibration, - Industrial Organization and Factory Planning, - Operational Research, - Mechanical drawing and AUTOCAD,
Ph.D. Study	The study presented an approach to incorporate human factors during the planning and scheduling phases of industrial projects. First, it was implemented to model the problem, considering two degrees of flexibility: the annualizing of the working time (with its modulations), and the versatility of operators. The dynamics nature of employees' productivities resulting from practice and work-interruptions is also considered. After that, it was oriented to answer the question "What kind of problem is raised by the project we are facing to schedule?": therefore the different dimensions of the project are inventoried and analysed to be measured. Afterwards, a methodology to evaluate the complexity of industrial projects was developed. As well, platform software to solve the problem and construct the project baseline schedule relying on genetic algorithms was developed. It has been validated; moreover, its parameters have been tuned to ensure the best performance, relying on an experimental design procedure. The robustness of its performance was also investigated with in-depth analysis. This research also highlights the different key parameters affecting the development of operators' versatility that can directly reduce the associated costs.	
M.Sc. Study	The work developed a mathematical model for balancing assembly line and proposed a meta-heuristic solution technique relying on genetic algorithms. The single and mixed assembly lines were considered with both deterministic and stochastic task time. The developed system has been applied in an Egyptian Company that produces electrical transformers. The study shows that batch production is the most suitable production method for this company, and the mixed model cannot applied unless a sequencing study done for the company. Also the study showed how to increase the productivity of	

the assembly line through re-distributing the work content over the line stations.

Published
Papers

Attia, E.-A., Duquenne, P., Le-Lann, J.M. 2014. Considering skills evolutions in multi-skilled workforce allocation with flexible working hours, international journal of Production Research, (DOI:10.1080/00207543.2013.877613).

Attia, E.-A., Edi, H.K., Duquenne, P., 2012. Flexible resources allocation techniques: characteristics and modelling. International journal of Operational Research 14, 221–254. (DOI: 10.1504/IJOR.2012.046649)

Adss D.M., Attia E-A. Mahmoud T.S. EL-Mahallawi I.S. Khalifa T.A., 2015, "Effect of Cooling Slope Casting Parameters on the Thixotropic Microstructure of A356 Aluminum Alloy", Presented in 16th International Conference on Aerospace Science & Aviation Technology (ASAT-16), May 26 - 28, 2015, Cairo, Egypt

Mahmoud S., Attia E-A, Elassal A., 2015, Managing Performance Improvement Initiatives: Case Study at EIARABY Group in Egypt, presented in Industry Academia Collaboration technology for development, 6th to 8th April 2015, Cairo, Egypt.

Essawy M., Attia E-A, Elassal A., 2015, QFD model for product progress: A case study at ELARABY manufacturing company, presented in Industry Academia Collaboration technology for development, 6th to 8th April 2015, Cairo, Egypt.

Mahmoud S., Attia E-A, Elassal A., 2014, A frame work for selecting performance improvement initiatives, presented in Al-Azhar Engineering Thirteenth International Conference. December, 23-25, Cairo, Egypt.

Essawy M., Attia E-A, Elassal A., 2014, Improving product manufacturing process using QFD methodology, presented in Al-Azhar Engineering Thirteenth International Conference. December, 23-25, Cairo, Egypt.

Attia, E.-A., Duquenne, P., Le-Lann, J.-M., 2013. Évaluation de la complexité des projets basée sur une analyse en composantes principales, In 10e congrès international de génie industriel, CIGI-2013, La Rochelle 12-14 juin 2013, France.

Attia, E.-A., Edi, H.K., Duquenne, P., 2012c. A greedy heuristic approach for the project scheduling with labour allocation problem. In: Al-Azhar Engineering Twelfth International Conference. December, 25-27, Cairo, Egypt, pp.173-196.

Attia, E.-A., Duquenne, P., Le-Lann, J.-M., 2012b. Decision-based genetic algorithms for solving multi-period project scheduling with dynamically experienced workforce, In: 9th International Conference on Modeling, Optimization & SIMulation, MOSIM-2012, 6-8 June, Bordeaux, France. Pages 10.

Attia, E.-A., Dumbrava, V., Duquenne, P., 2012a. Factors affecting the development of workforce versatility, In: 14th IFAC Symposium on Information Control Problems in Manufacturing. May 23-25, Bucharest, Romania.

Attia, E.-A., Duquenne, P., Le-Lann, J.-M., 2011c. Affectation flexible des effectifs : Vers un modèle de gestion des compétences. In: XIII^{ème} Congrès de la Société Française de Génie des Procédés, (SFGP-2011), 29/Novembre au 1/décembre 2011, Lille, France.

Attia, E.-A., Duquenne, P., Le-Lann, J.-M., 2011b. Prise en compte des évolutions de compétences pour les ressources humaines. In : 9eme congrès international de génie industriel, CIGI-2011,12-14 October 2011, Saint-Sauveur, Québec, Canada.

Attia, E.-A., Duquenne, P., Le-Lann, J.-M., 2011a. Problème d'affectation flexible des ressources humaines : Un modèle dynamique. 12^{ème} congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF 2011), Saint-Etienne, France.

ATTIA, E. A., Soliman, M.M., Gomaa, A. H., Zahran, M. Z., 2008. Solving assembly line balancing problem using genetic algorithms, 43rd Annual Conference on Statistics, Computer Science, and Operations Research, In the Occasion of the 1st Centennial for Cairo University (1908-2008), December, 22-25, 2008, Cairo, Egypt.

Attended Training Courses	2014	Comprehensive BTEC Assessment, Verification and Portfolio Building Workshop	A workshop in all of the pearson-btec rules for delivery, assignment development, assessment, internal verifications, administration work. Trained by Pearson-BTEC members, united kingdom
	2014	Managing time and meeting	Benha University, Egypt.
	2014	Effective presentation	Benha University, Egypt.
	2013	Self evaluation and external reviewing	Benha University, Egypt.
	2013	Statistical analysis in scientific research (SPSS)	Benha University, Egypt.
	2013	University Management	Benha University, Egypt.
	2012	Supply Chain Management	Paul Sabatier University, Toulouse, France
	2011	Heuristic optimization	L'ISAE, Toulouse, France
	2010	Project's fundamental knowledge	INPT/ Formation continue – Toulouse, France
	2010	Cost control	INPT/ Formation continue – Toulouse, France
	2010	Evaluation and estimation of investments	INPT/ Formation continue – Toulouse, France
	2010	Operational planning	INPT/ Formation continue – Toulouse, France
	2010	Conducting of meetings	Toulouse University– Toulouse, France
	2010	Project management	Toulouse University– Toulouse, France
	2009	Communications and public speaking	Toulouse University– Toulouse, France
	2009	Personal assessment and professional project	Toulouse University– Toulouse, France
	2009	Scheduling of industrial systems	LAAS/ Paul Sabatier University - Toulouse, France
	2008	ICDL (All modules)	ITTC-Campus, Cairo, Egypt
	2008	French language (400 hours)	Centre Français de Culture et de Coopération "CFCC", Cairo, Egypt.
	2006	Using and maintenance of Educational aid Projection Instruments, Production of Educational Material,	Benha University, Egypt.
	2006	Effective Teaching	Benha University, Egypt.
	2005	Scientific Thinking Methods	Benha University, Egypt.
	2005	Effective Presentation Methods	Benha University, Egypt.
2000	Introduction to PLC, Control & Instrumentation Systems Tech.	SHAKER Consultancy Group, Cairo, Egypt.	
2000	Maintenance Management and Planning,	Higher Technological Institute. Tenth of Ramadan City, Egypt.	

Special Skills

Managerial Skills:

- Highly skilled in working with teams
- Team leader skills
- Communications skills

Computer Skills:

A skilful computer user of the following applications:

- Basic software: Windows, Microsoft offices (Word, Excel, power point, and access), Internet, and document preparation with "LaTeX"
- Illustration development software, such as: Microsoft Visio, Adobe-Indesign, bizagi process modelling,
- Development Software, such as: Visual Basic, Visual studio C++ , MATLAB,
- Optimization software, such as: IBM ILOG Optimizer (Constraint programming, CPLEX), GAMS, Lingo.
- Statistical analysis software such as: SSPS, MINITAB, XLSTAT (Addinsoft),
- Simulation software such as: Arena7,
- Project planning and scheduling software (e.g. Microsoft project),
- Drawing software such as "AUTOCAD", "Solidworks"

Languages

- English (very good),
- French (very good),
- Arabic (native)

Personal
Data

7/9/1975
Dakahlia-Egypt
Egyptian

References

- | | | |
|---------------------------------|---|--|
| Prof. Dr. Jean-
marc Le LANN | Institute national
polytechnique, Toulouse,
France.
Currently the Dean of faculty
of "ENSIACET", INP, Toulouse,
France. | jeanmarc.lelann@ensiacet.fr
(+33/0)5 34 32 33 01 |
| Dr. Philippe
Duquenne | Institute national
polytechnique, Toulouse,
France
Currently the responsible of
the Industrial engineering
department, ENSIACET,
Toulouse, France. | philippe.duquenne@ensiacet.fr
(+33/0) 534 323 659 |
| Prof. Dr.
Moustafa
Zahran | Professor of Design and
Production, Shoubra Faculty of
Engineering, Benha University,
Egypt.
Currently the president of El
Asher University, El Asher of
Ramadan City, Egypt. | Moustafa.zahran@yahoo.com
(+20)1223121114 |

Documented
References

Furnished upon request