

Aly Mohamed Owida

Assistant Lecturer

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Date & Place of Birth: December 24, 1984, Alexandria, Egypt.

SUMMARY

Aly Owida is an industrial engineer at the department of Industrial and Management Engineering (IME) at AASTMT, which is an ABET and IET accredited program of study since 2010. He received his M.Sc. in Industrial and Management Engineering from AASTMT. His research work was investigating the effectiveness of implementing radio frequency identification technology for products tracking in job shop production. He is working as a teaching and research assistant since graduation in 2007 and has over ten years of experience in the academic field of Industrial Engineering. Specifically, Aly has a considerable experience in operations research, management science, engineering statistics, project management, industrial systems simulation, and supply chain management. Also, Mr. Owida is supporting administrative and academic advising services at IME such as quality coordination, status report development, academic advising, website improving, and timetabling & scheduling.

He is doing his PhD by research in the Department of Design and Manufacturing Technology, Faculty of Science and Engineering, University of Limerick, Limerick, Ireland with the title of "Research into Service Models for After Sales Services" and he is expected to earn the degree in 2018.

EDUCATION

- 2013 – 2018 Department of Design and Manufacturing Technology, Faculty of Science and Engineering, University of Limerick.
PhD Research into Service Models for After Sales Services.
- 2007 – 2011 Department of Industrial and Management Engineering, College of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport.
M. Sc. Industrial and Management Engineering, April 2011. GPA: 3.96
- 2008 – 2009 Graduate School of Business, Arab Academy for Science, Technology and Maritime Transport.
Postgraduate Diploma Business Administration, October 2009. GPA: 3.79
- 2002 – 2007 Department of Industrial and Management Engineering, College of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport.
B. Sc. Industrial and Management Engineering, July 2007. GPA: 3.88

RESEARCH AREAS OF SPECIALTY

- Inventory management
- Optimization
- Systems modelling, analysis and simulation
- Supply chain management

RESEARCH

Investigating the effectiveness of implementing radio frequency identification technology for products tracking in job shop production

M. Sc. Thesis.

This work is investigating the operational and economical feasibility of implementing radio frequency identification technology for tracking and identification of items on the shop floor in a job shop manufacturing environment. A leading furniture manufacturer in Egypt has been selected as a case study. The manufacturer produces a large number of customized furniture products. Errors in tracking and identification usually occur due to the large number of products present on the shop floor. Introduction of radio frequency identification technology at different stages of manufacturing is proposed to overcome these errors. Different simulation models have been developed for the post-assembly processes in the facility.

These models have been developed with an intent to capture all the features that characterize a real furniture manufacturing facility. Simulation is used to assess the impact of introducing the RFID technology on a number of performance measures. A cost analysis was conducted to calculate the outcome of radio frequency identification technology implementation on the operating costs of the manufacturing system and the investments required for this implementation. Analysis and comparison of simulation results for the base and proposed models show that RFID implementation can improve the overall performance of the facility. Cost analysis show that RFID technology introduction is feasible in such a system and the return on investment will be very promising.

Resource Scheduling of Manufacturing Systems

B. Sc. Final Year Project.

This work studies the operations of a plant that specializes in the production of powder desserts mixes and instant powder drinks for the retail market. The company suffers from a scheduling problem; which is determining the sequence of jobs that should be processed and the amount of each job. A simulation model was built to assess different production schedules in order to determine its impact on several parameters such as mixers utilization and changeover time.

PUBLICATIONS

- **Aly Owida**, PJ Byrne, Cathal Heavey, Paul Blake, and Khaled S. El-Kilany, 2016. "A simulation based continuous improvement approach for manufacturing based field repair service contracting." International Journal of Production Research, 54(21), pp.6458-6477.
- **Aly M. Owida**, Khaled S. El-Kilany, and Aziz E. El-Sayed, 2011. "Evaluating the Impact of Introducing RFID Technology in Manufacturing Systems Using Simulation." 41st International Conference on Computers and Industrial Engineering, Los Angeles, California, USA, pp.211-216.
- **Aly M. Owida**, Khaled S. El-Kilany, and Aziz E. El-Sayed, 2010. "Analytical Hierarchy Process for Selection of RFID System: An Application in Retail Supply Chains." 20th International Flexible Automation and Intelligent Manufacturing Conference, California State University, East Bay, USA, pp.496-503.

PROFESSIONAL EXPERIENCE

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|---------------------|---|
| Jun 2011 – Now | Department of Industrial and Management Engineering, College of Engineering and Technology
Arab Academy for Science, Technology and Maritime Transport.
Assistant Lecturer. |
| Sep 2007 – Jun 2011 | Department of Industrial and Management Engineering, College of Engineering and Technology
Arab Academy for Science, Technology and Maritime Transport.
Graduate Teaching Assistant. |

COURSES TAUGHT

- Manufacturing Processes
- Engineering Economy
- Engineering Project Management
- Engineering Statistics
- Operations Research
- Management Science
- Supply Chain Management
- Design of Experiments

AWARDS, SCHOLARSHIPS & ACADEMIC RECOGNITION

- Certificate of Appreciation 2004, for the fall semester in the academic year 2003-2004 B.Sc., from the Department of Industrial and Management Engineering.
- Certificate of Appreciation 2004, for the spring semester in the academic year 2003-2004 B.Sc., from the Department of Industrial and Management Engineering.
- Certificate of Appreciation 2007, for the fall semester in the academic year 2006-2007 B.Sc., from the Department of Industrial and Management Engineering.
- Scholarship for the fall semester in the academic year 2004-2005 B.Sc., from the Department of Industrial and Management Engineering.
- Scholarship for the fall semester in the academic year 2009-2010 M.Sc., from the Department of Industrial and Management Engineering.
- Research Grant Award 2010, to use “ExtendSim OR” to model and analyze the implementation of RFID technology in the furniture manufacturing industry for a Master’s degree in industrial and management engineering at AASTMT.
- College Incentive Award 2011, for being awarded a research grant to use “ExtendSim OR.”

PROFESSIONAL SOCIETIES MEMBERSHIP

- Member of the AASTMT Alumni.
- Member of the Egyptian Syndicate of Engineers.
- Member of the Institute of Industrial Engineers (IIE).
- Member of Institute of Operations Research and the Management Sciences (INFORMS).

TECHNICAL EXPERIENCE

- *Quality Coordinator.* Documentation and organization of the quality records, required for fulfilling ISO 9001 standards.
- *Status Report Development.* Development and updating of the department status report.
- *Academic Advising.* Helping and advising students during their registration process.
- *Timetabling and Scheduling.* Development of the undergraduate schedules, solving conflicts, coordinating with other departments, and coordinating with external lecturers.

TRAINING EXPERIENCE

- Decorative Furniture Co. (Fayek) – Alexandria, Egypt (July & August 2007)
- Pepsi Cola – Amreia Plant, Alexandria, Egypt (August 2006)
- Middle East Operations and Maintenance for Hydrocarbon Industries (MIDOM) – Alexandria, Egypt (August 2005)
- Sidi Kerair Petrochemicals Co. (SIDPEC) – Alexandria, Egypt (July 2005)
- Alexandria Steel Forming Company – Alexandria, Egypt (June 2005)
- Al-Ahram Metal Works Co. – Alexandria, Egypt (February 2005)

NON-ACADEMIC ACTIVITIES & VOLUNTEER EXPERIENCE

- Member in The Leo Club of Alexandria Yacht, Egypt (April 2005 – December 2006)
- Participant in the annual “Ramadan To Go” project
- Participant in different Blood Donation Campaigns
- Member in the Local Organizing Committee of Africa Cup of Nations – Egypt 2006
- Participant in the 2nd Arab Youth Conference, Amman – Jordan 2006
- Member in the Organizing Committee of 9th Basketball Summer League in Alexandria – Egypt 2006
- Member in The Alexandria Leo Club, Egypt (December 2006 – December 2008)
- Participant in the “Blind’s Day” charity event
- Participant in different Medical Campaigns
- Participant in the annual “Orphan’s Day” charity event
- Participant in the awareness project “Shababik”
- Life Member in The Alexandria Leo Club, Egypt (December 2008)
- Member in the Local Organizing Committee of FIFA U-20 World Cup – Egypt 2009

PROFESSIONAL CERTIFICATES & EVENTS ATTENDED

- “the 4 Wheels” by Association of Management Advisors (AMA) – 2006
- “MANAGING TIME” by International Finance Corporation (IFC) & EAAC Training Group – 2006
- “Project Management using Primavera by Production Engineering Special Unit, Faculty of Engineering, Alexandria University – 2008

REFERENCES

Prof. Aziz Ezzat El-Sayed, Vice President for Education and Quality Assurance,
Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt
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Engineering, College of Engineering and Technology,
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Prof. Cathal Heavey, Professor, Department of Design and Manufacturing Technology, Faculty of
Science and Engineering, University of Limerick, Limerick, Ireland
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Prof. PJ Byrne, Professor, Department of Management, Business School, Dublin City University, Dublin,
Ireland
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Dr. Islam Shyha, Research Technologist, Rolls-Royce plc., Derby, DE24 8BJ, UK and Research Fellow,
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Dr. Sherif Hassanien, Senior Research Engineer, Risk and Reliability Analysis, C-FER Technologies,
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