

# Aly Owida, Ph.D.

Assistant Professor



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

## SUMMARY

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Aly Owida is an Assistant Professor at the department of Industrial and Management Engineering (IME) at the Arab Academy for Science, Technology and Maritime Transport (ASTMT), which is an ABET and IET accredited program of study since 2010.

Dr. Owida has received his PhD in Operations and Supply Chain Management from University of Limerick, Ireland. His research work aim was to review and analyze the current existing contracting activities for outsourcing after-sales field repair services with a specific focus on the Middle Eastern emerging markets, and to assess the potential for improving after-sales field repair services contracting through developing continuous improvement approach to support service contracting in both established and emerging markets.

He has previously been appointed as a Teaching Assistant and an Assistant Lecturer at IME and has been working in the academic field of teaching and research since graduation in 2007. He has a considerable experience in teaching Operations Research and Management Science, Project Management, Engineering Economy, and Supply Chain Management.

He has supported administrative and academic advising services at IME such as quality coordination, status report development, academic advising, website improving, and timetabling and scheduling. Also, he has been involved in the accreditation process of industrial engineering required by ISO, ABET, IET, National Authority for Quality Assurance and Accreditation in Egypt, and the Supreme Council of Universities in Egypt.

Dr. Owida research interests lies in the modelling, analysis, and performance improvement of industrial systems and business processes within the area of operations and supply chain management, including manufacturing and service supply chains. He is interested in the use of discrete-event simulation, business process modelling and business process simulation, and optimization techniques. Other areas of interest include after-sales services, buyer-supplier relationships, scheduling, risk management, seaports disruption management, and transportation and logistics of agri-food supply chains.

## EDUCATION

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- 2013 – 2018** Department of Design and Manufacturing Technology, School of Engineering, University of Limerick.  
**Ph.D. Operations and Supply Chain Management, May 2018.**
- 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**

## PROFESSIONAL EXPERIENCE

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- Jun 2018 – Now** Department of Industrial and Management Engineering, College of Engineering and Technology  
Arab Academy for Science, Technology and Maritime Transport.  
**Assistant Professor.**
- Nov 2019 – Feb 2020** 3S Research Group, School of Management, College of Business Technological University Dublin (TU Dublin).  
**Postdoctoral Researcher.**
- Jun 2011 – May 2018** Department of Industrial and Management Engineering, College of Engineering and Technology  
Arab Academy for Science, Technology and Maritime Transport.  
**Assistant Lecturer.**
- Sep 2007 – May 2011** Department of Industrial and Management Engineering, College of Engineering and Technology  
Arab Academy for Science, Technology and Maritime Transport.  
**Graduate Teaching Assistant.**

## RESEARCH INTERESTS

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- Modelling, simulation, and optimization of different operations and/or supply chains
- Modelling, analysis, and simulation of different business processes
- After-sales services and field repair services
- Buyer-supplier relationships, service contracting, and supplier selection
- Scheduling of projects and industrial systems
- Risk management and analysis
- Seaports disruption management
- Transportation and logistics of agri-food supply chains

## COURSES TAUGHT

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- Manufacturing Technology
- Manufacturing Processes
- Engineering Economy
- Engineering Project Management
- Engineering Statistics
- Operations Research
- Management Science
- Supply Chain Management
- Design of Experiments
- Engineering Cost Analysis
- Industrial Relations
- International Operations Management

## TECHNICAL EXPERIENCE

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- *Quality Coordination.* Documentation and organization of the quality records.
- *Status Report Development.* Development and update 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.
- *Department Publicity.* Conducting marketing activities for undergraduate and postgraduate programs.

## PUBLICATIONS

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### Theses and Final Year Project

- *A continuous improvement approach for outsourced after-sales field repair services contracting, Ph.D. Thesis.* Work included the development of a contracting methodology for the outsourcing of after-sales field repair services. A framework was proposed to allow for a buyer-supplier collaborative negotiations including an execution approach for the implementation of continuous improvement over the contract lifecycle with agreement on benefits sharing. Framework testing using real data has shown to provide significant improvements in terms of ongoing cost reductions and improved service quality, which represents a developed trial-ready approach.
- *Investigating the effectiveness of implementing radio frequency identification technology for products tracking in job shop production, M.Sc. Thesis.* Work included investigation of 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. Simulation has been used to assess the impact of introducing the RFID technology on a number of performance measures.
- *Resource Scheduling of Manufacturing Systems, B.Sc. Final Year Project.* Work included the development of a simulation model for the operations of a plant that specializes in the production of powder desserts mixes and instant powder drinks. The model has been used to assess different production schedules and their impact on several performance measures such as mixers utilization and changeover time.

### Refereed Articles

- Hassan ElFiky, **Aly Owida**, and Noha M. Galal, “Resource Constrained Multi-Project Scheduling Using Priority Rules: Application in the Deep-Water Construction Industry” International Conference on Industrial Engineering and Operations Management, Dubai, UAE, pp.353-363, **2020**.
- **Aly Owida**, PJ Byrne, Cathal Heavey, Paul Blake, and Khaled S. El-Kilany, “A simulation based continuous improvement approach for manufacturing based field repair service contracting” International Journal of Production Research, 54(21), pp.6458-6477, **2016**.
- **Aly M. Owida**, Khaled S. El-Kilany, and Aziz E. El-Sayed, “Evaluating the Impact of Introducing RFID Technology in Manufacturing Systems Using Simulation” 41<sup>st</sup> International Conference on Computers and Industrial Engineering, Los Angeles, California, USA, pp.211-216, **2011**.
- **Aly M. Owida**, Khaled S. El-Kilany, and Aziz E. El-Sayed, “Analytical Hierarchy Process for Selection of RFID System: An Application in Retail Supply Chains” 20<sup>th</sup> International Flexible Automation and Intelligent Manufacturing Conference, California State University, East Bay, USA, pp.496-503, **2010**.

## SUPERVISION OF UNDERGRADUATE AND POSTGRADUATE STUDENTS

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### Ongoing M.Sc. Supervision

- Risk Management for Multi-Projects in Oil and Gas Industry, M.Sc. Thesis; Expected **2020**.

### Supervision of B.Sc. Final Year Projects

- Facility Layout; **2020**.
- Sustainable Food Processing. Industry Partner: Unilever; **2019**.

## INTERNATIONAL PROJECTS

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- Post-Brexit Implications on Irish Freight, Transport and Logistics Industry, Oct **2019** – Jun **2020**.
- Blended Entrepreneurial and Manufacturing Technology (BEMT) Co-founded by Erasmus+ Programme of the European Union. Developed and delivered training courses for project candidates, **2018**.

## AWARDS, SCHOLARSHIPS AND ACADEMIC RECOGNITION

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- College Recognition Award **2019**, for earning PhD and for Assistant Professor Promotion.
- PhD Scholars Bursary **2018**, as a PhD candidate at University of Limerick.
- College Scientific Research Award **2017**, for publishing an article in a high-ranked journal.
- College Incentive Award **2011**, for being awarded a research grant to use “ExtendSim OR.”
- 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.
- Scholarship **2009**, for the fall semester in the academic year 2009-2010 M.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 **2005**, for the fall semester in the academic year 2004-2005 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 **2004**, for the fall semester in the academic year 2003-2004 B.Sc., from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2003**, for the spring semester in the academic year 2002-2003 B.Sc., from the Department of Industrial and Management Engineering.

## PROFESSIONAL SOCIETIES MEMBERSHIP

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- Member of the AASTMT Alumni.
- Member of the Syndicate of Egyptian Engineers in Alexandria.
- Member of the Institute of Industrial and Systems Engineers (IISE).
- Member of Institute of Operations Research and the Management Sciences (INFORMS).
- Academic Member of the Athens Institute for Education and Research (ATINER).

## PROFESSIONAL CERTIFICATES AND EVENTS ATTENDED

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- “Programming Python Training Course” by CISCO Academy – **2019**
- “Writing Research Papers” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2019**
- “Effective Presentation Skills” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2019**
- “Communicating Science and Academic Research” by Deutscher Akademischer Austauschdienst (DAAD) – **2014**
- “International Publishing of Scientific Research” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2013**
- “Educational Preparation Course” by Arab Academy for Science, Technology and Maritime Transport (AASTMT) – **2010**
- “Project Management using Primavera” by Production Engineering Special Unit, Faculty of Engineering, Alexandria University – **2008**
- “MANAGING TIME” by International Finance Corporation (IFC) and EAAC Training Group – **2006**
- “the 4 Wheels” by Association of Management Advisors (AMA) – **2006**

## **TRAINING, NON-ACADEMIC ACTIVITIES, AND VOLUNTEER EXPERIENCE**

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- Member in the Local Organizing Committee of FIFA U-20 World Cup – Egypt **2009**
- Participant in the 2<sup>nd</sup> Arab Youth Conference, Amman – Jordan **2006**
- Member in the Local Organizing Committee of Africa Cup of Nations – Egypt **2006**
- Member in different charity organizations between **2005** and **2008**
- Joined 6 internships and practical trainings among local and multinational companies between **2005** and **2007**.
- Participant in various charity events such as Blood Donation Campaigns, Medical Campaigns, the annual “Orphan’s Day”, among many others.

## **REFERENCES**

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**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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**Prof. Khaled S. El-Kilany**, Professor and Chairman, Department of Industrial and Management  
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**Prof. Cathal Heavey**, Professor, Department of Design and Manufacturing Technology, School of  
Engineering, 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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