

# Aly Owida, PhD

Assistant Professor



Department of Industrial and Management Engineering,  
College of Engineering and Technology,  
Arab Academy for Science, Technology and Maritime Transport (AASTMT),  
Alexandria, Egypt.

Telephone: +203 5610755      Mobile: +20 100 512 2334  
E-mail: [alyowida@aast.edu](mailto:alyowida@aast.edu)      [alyowida@gmail.com](mailto:alyowida@gmail.com)  
LinkedIn: <https://www.linkedin.com/in/aly-owida-phd-9a3a0958/>

## PERSONAL PROFILE

---

Lecturer, researcher, and business consultant with 17+ years of experience teaching courses on undergraduate and postgraduate levels as well as providing academic services. Supervised BSc projects and MSc theses. Contributed to international projects and published a technical report. Published articles in high-ranked peer-reviewed journals as well as papers in international conferences. Reviewed papers in different international conferences and journals. Obtained several awards and scholarships on undergraduate and postgraduate levels from universities in Egypt and Ireland as well as a research grant award from a simulation software company. Participated in various workshops on research, peer reviewing, online and offline teaching, and adopting technologies in teaching. Co-organized several local, regional, and international events. Provided consultations to different SMEs in Egypt.

## SUMMARY

---

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 (AASTMT), which is an ABET accredited program of study since 2010. He is a business consultant for some SMEs in Egypt.

Dr. Owida has received his PhD in Operations and Supply Chain Management from University of Limerick, Ireland. His research aimed to review and analyze the 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 field repair services contracting through developing continuous improvement approach to support service contracting in both established and emerging markets.

He has been working in the academic field of teaching and research since 2007. He has considerable experience in teaching Operations Research, Operations Management, and Supply Chain Management and adopted the use of case-based teaching in different courses along with practical term projects.

He has supported administrative tasks and academic advising services at IME such as quality coordination, status report development, academic advising, website improving, department publicity, and timetabling and scheduling. Also, he has facilitated and supported the accreditation process of industrial engineering required by several accreditors such as ISO, ABET, IET, NAQAAE among others.

Dr. Owida research interests lie 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 product-service systems, field service management, supplier selection and contracting, scheduling of projects and industrial systems, supply chain risk management, supply chain resilience, supply chain sustainability, and transportation and logistics of agri-food supply chains.

## EDUCATION

---

- **2018 PhD in Operations and Supply Chain Management**

Department of Design and Manufacturing Technology, School of Engineering  
University of Limerick, Limerick, **Ireland**

Thesis title: *“A continuous improvement approach for outsourced after-sales field repair services contracting.”*

Thesis supervisors: Prof. Cathal Heavey, Prof. PJ Byrne, and Prof. Khaled S. El-Kilany

- **2011 MSc in Industrial and Management Engineering**

Department of Industrial and Management Engineering, College of Engineering and Technology  
Arab Academy for Science, Technology and Maritime Transport, Alexandria, **Egypt**

Thesis title: *“Investigating the effectiveness of implementing radio frequency identification technology for products tracking in job shop production.”*

Thesis supervisors: Prof. Khaled S. El-Kilany and Prof. Aziz Ezzat El-Sayed

- **2009 Diploma in Business Administration**

Graduate School of Business

Arab Academy for Science, Technology and Maritime Transport, Alexandria, **Egypt**

- **2007 BSc in Industrial and Management Engineering**

Department of Industrial and Management Engineering, College of Engineering and Technology  
Arab Academy for Science, Technology and Maritime Transport, Alexandria, **Egypt**

Thesis title: *“Resource Scheduling of Manufacturing Systems.”*

Thesis supervisors: Prof. Khaled S. El-Kilany

## PROFESSIONAL EXPERIENCE

---

- **Assistant Professor 2018 – Now**

Department of Industrial and Management Engineering, College of Engineering and Technology  
Arab Academy for Science, Technology and Maritime Transport, Alexandria, **Egypt**

Taught a total of 10 undergraduate and 3 postgraduate courses, mainly focused on management engineering areas along with some industrial engineering topics. Managed and mentored more than 16 Teaching Assistants. Supervised 6 BSc projects and 2 MSc theses. Contributed to international project through teaching short courses for graduates who are seeking to start their own business. Researched different topics such as supply chain risk management, supply chain resilience and sustainability, multi-project scheduling, industrial facilities layout, waste management, inventory management, and green supply chains. Reviewed some papers and articles for different conferences and journals. Collaborated in developing a new BSc program. Provided several administrative tasks and academic services at the department as well as on the college level. Facilitated and supported the delivery of Industrial Engineering Course Group to undergraduate students. Provided consultation services to SMEs in different functions such as operations and supply chains, customer experience, purchasing, management and leadership, and corporate governance.

- **Postdoctoral Researcher 2019 – 2020**

3S Research Group, School of Management, College of Business  
Technological University Dublin (TU Dublin), Dublin, **Ireland**

Contributed to international project funded by the European Union that aimed at addressing Post-Brexit implications on Irish freight, transport, and logistics industry. Participated in many administrative activities in the project such as planning, organizing, reporting, among others. Attended different events related to the project and dealt with different authorities and policy makers on both local and regional levels. Conducted structured interviews with practitioners and published a technical report. Conducted scientific research on investigating Brexit implications on the Irish agri-food exports through simulation-based scenario mapping model.

- **Assistant Lecturer 2011 – 2018**

Department of Industrial and Management Engineering, College of Engineering and Technology  
Arab Academy for Science, Technology and Maritime Transport, Alexandria, **Egypt**

Taught a total of 9 undergraduate courses in different course groups such as industrial engineering, management engineering, and manufacturing. Started my PhD degree and conducted research on after-sales field repair services contracting. Developed a contracting methodology for the outsourcing of after-sales field repair services. Provided several administrative tasks and academic services at the department as well as on the college level.

- **Graduate Teaching Assistant 2007 – 2011**

Department of Industrial and Management Engineering, College of Engineering and Technology  
Arab Academy for Science, Technology and Maritime Transport, Alexandria, **Egypt**

Taught a total of 9 undergraduate courses in different course groups such as industrial engineering, management engineering, and manufacturing. Started my Business Administration Diploma and then my MSc degree. Conducted research investigating the effectiveness of implementing radio frequency identification technology for products tracking in job shop production. Provided several administrative tasks and academic services at the department as well as on the college level.

## **PUBLICATIONS**

---

### **Refereed Articles**

- **Aly Owida**, Noha M. Galal, and Ayman Elrafie, “*Decision-Making Framework for a Resilient Sustainable Production System during COVID-19: An Evidence-Based Research*” **Computers and Industrial Engineering**, 164, **2022**.
- **Aly Owida**, PJ Byrne, Cathal Heavey, and Khaled S. El-Kilany, “*Product-service systems in Egypt: a multicase evaluation of field repair*” **International Journal of Emerging Markets**, 17(2), pp. 505-529, **2022**.
- Amr Mahfouz, Rishi Choudhary, John Crowe, **Aly Owida**, and Wael Rashwan, “*Investigating Brexit Implications on the Irish Agri-food Exports: A Simulation-based Scenario Mapping Model*” **Winter Simulation Conference**, pp.1480-1491, **2020**.
- 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*” **International Conference on Computers and Industrial Engineering**, 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*” **International Flexible Automation and Intelligent Manufacturing Conference**, East Bay, USA, pp.496-503, **2010**.

#### Technical Reports

- Amr Mahfouz, John Crowe, Rishi Choudhary, Jennifer Floody, **Aly Owida**, and Declan Allan, “*Post-Brexit Implications on Irish Freight Transport and Logistics Sector*”, **2021**.

#### IN-PROGRESS RESEACRH AND UNDER REVIEW PUBLICATIONS

---

- After-Sales Field Service and its boundaries in the manufacturing context
- A Conceptual Framework of Field Repair Service: A Systematic Literature Review
- A Product-Service Supply Chain Partner Selection and Contracting Framework for Outsourced Services in Service Triads
- Business Process Simulation vs. Discrete Event Simulation in Facilitated Modelling Environment
- Modelling and Analysis of Operations Disruptions
- Performance Evaluation of Priority Rules for the Resource-Constrained Multi-Project Scheduling Problem
- Enhancing Supply Chain Resilience in SMEs: A Framework and Research Agenda Toward AI Assisted Decision Support System
- Managing Inventory in Retail Supply Chains

#### AWARDS, SCHOLARSHIPS AND ACADEMIC RECOGNITION

---

- College Recognition Award **2019**, for earning PhD and for being successfully promoted to Assistant Professor.
- 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 MSc, from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2007**, for the fall semester in the academic year 2006-2007 BSc, from the Department of Industrial and Management Engineering.
- Scholarship **2004**, for the fall semester in the academic year 2004-2005 BSc, from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2004**, for the spring semester in the academic year 2003-2004 BSc, from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2004**, for the fall semester in the academic year 2003-2004 BSc, from the Department of Industrial and Management Engineering.
- Certificate of Appreciation **2003**, for the spring semester in the academic year 2002-2003 BSc, from the Department of Industrial and Management Engineering.

## TEACHING EXPERIENCE

---

### Undergraduate Courses

- Operations Research & Management Science
- Operations Management
- Supply Chain Management
- Engineering Project Management
- International Operations Management
- Engineering Economy
- Engineering Cost Analysis
- Leadership in Industrial Organizations
- Introduction to Entrepreneurship
- Engineering Statistics
- Design of Experiments
- Industrial Relations
- Manufacturing Technology
- Manufacturing Processes

### Postgraduate Courses

- Operations Research
- Operations Management
- Advanced Operations Management

## TECHNICAL EXPERIENCE

---

- *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.
- *Website Improving.* Updating website for under- and post-graduate programs.
- *Department Publicity.* Conducting marketing activities for under- and post-graduate programs.
- *Course Coordinating.* Working as the Coordinator for Industrial Engineering Course Group.
- *Timetabling and Scheduling.* Development of the undergraduate schedules, solving conflicts, coordinating with other departments, and coordinating with external lecturers.

## PROJECTS EXPERIENCE

---

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

## SUPERVISION OF UNDERGRADUATE AND POSTGRADUATE STUDENTS

---

### Ongoing MSc Theses Supervision

- Simulation of Production Systems and Analysis of Operations Disruptions, MSc Thesis; Expected **2024**.

### MSc Theses Supervision to Completion

- Resource-Constrained Multi-Project Scheduling Problem in the Deep-Water Construction Industry, MSc Thesis; **2021**.

### Supervision of BSc Final Year Projects

- Green Supply Chain in the Tire Industry. Industry Partner: Prometeon Tyre Group; **2024**
- Sustainable Inventory Management in the Food Retail Sector. Industry Partner: Local Supermarket Chain; **2023**
- Sustainable Supply Chain during COVID-19 and after. Industry Partner: Prometeon Tyre Group; **2022**
- Waste Reduction in Food Processing. Industry Partner: Unilever; **2021**
- Facility Layout. Industry Partner: Dyeing Textile Factory; **2020**.
- Sustainable Food Processing. Industry Partner: Unilever; **2019**.

## RESEARCH INTERESTS

---

- Modelling, simulation, and optimization of different operations and/or supply chains
- Modelling, analysis, and simulation of different business processes
- Product-service systems, field service management, and field repair services provision
- Service supplier selection and contracting
- Scheduling of projects and industrial systems
- Risk management, disruption management, resilience, and sustainability of supply chains
- Transportation and logistics of agri-food supply chains
- Inventory management in retail supply chains

## PROFESSIONAL TRAININGS, CERTIFICATES AND EVENTS ATTENDED

---

- “PhD Freshmen Cruise School (Rome-Barcelona)” Workshop by University of Genoa (UniGe), **2024**
- “Respondus Training” by Arab Academy for Science, Technology and Maritime Transport (AASTMT), **2021**
- “Practical Peer Review Course” by Publons Academy, **2021**
- “Pre-submission Publishing Strategies Workshop” by Nature Research Academies and Egyptian Knowledge Bank, **2021**
- “Re-Thinking Student Assessment in Online Learning” by Center for Learning Innovations and Customized Knowledge Solutions, **2020**
- “Designing for Online Learning” by Center for Learning Innovations and Customized Knowledge Solutions, **2020**
- “Using Moodle” by Arab Academy for Science, Technology and Maritime Transport (AASTMT), **2020**
- “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**

## NON-ACADEMIC ACTIVITIES AND VOLUNTEER EXPERIENCE

---

- 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.

## PROFESSIONAL SOCIETIES MEMBERSHIP

---

- 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).

## REFERENCES

---

- **Prof. Aziz Ezzat El-Sayed**, Professor of Industrial Engineering, Advisor to the AASTMT President for Scientific Affairs, former Vice President for Education and Quality Assurance, former Dean of College of Engineering and Technology, former Dean of Industry Service Complex, former Head of Industrial and Management Engineering Department  
Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt  
Mobile: +20 122 317 7187  
E-mail: [azizezzat@aast.edu](mailto:azizezzat@aast.edu)
- **Prof. Khaled S. El-Kilany**, Professor of Industrial Engineering, Dean of Industry Service Complex, former Head of Industrial and Management Engineering Department  
Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt  
Mobile: +20 122 311 5727  
E-mail: [kkilany@aast.edu](mailto:kkilany@aast.edu)
- **Prof. Cathal Heavey**, Professor of Industrial Engineering, Department of Design and Manufacturing Technology, School of Engineering, Faculty of Science and Engineering  
University of Limerick, Limerick, Ireland  
Mobile: +353 86 773 9496  
E-mail: [cathal.heavey@ul.ie](mailto:cathal.heavey@ul.ie)
- **Prof. PJ Byrne**, Professor of Operations Management, Department of Management, Business School  
Dublin City University, Dublin, Ireland  
Mobile: +353 87 774 2125  
E-mail: [pj.byrne@dcu.ie](mailto:pj.byrne@dcu.ie)