



KHALED S. ABDALLAH

81 9th District, 4th
Neighborhood, ElShorook city
Cairo, Egypt
+201281115220
KHALED.SEIF@AAST.EDU

OBJECTIVE:

My own personal life philosophy is to be involved in a better future for the human beings. Although I had many opportunities to join several industries, but I believed and still believe that there is no other job that directly contributes to a better future than education, training, and research. I love my job, and I am always willing to help other people to aid them and learn from them as well. It is a win-win situation that never disappoints.

DOB:

January 4th, 1979.

Gender:

Male.

EDUCATION:

PhD, Industrial and Manufacturing Engineering, University of Wisconsin-Milwaukee, Milwaukee, WI, May 2010

- **Doctoral Thesis:** "Vehicle Routing Problem with Semi-hard Resource Constraints", May 2010, Faculty of Engineering, Industrial and Manufacturing Engineering, University of Wisconsin-Milwaukee.

Master of Operations Research, Institute of Statistical Studies and Research, Cairo University, May 2006

Master of Science, Mechanical Engineering, Design and Production Department, Faculty of Engineering, Ain Shams University, Awarded May 2004

- **Masters Thesis:** "Quality Assurance for Information Systems", May 2004, Faculty of Engineering, Ain Shams University.

Bachelor of Science: Mechanical Engineering, Design and Production Department, Faculty of Engineering, Ain Shams University, Awarded July 2001 with accumulated grade Excellent.

- **Senior Project:** "Design and Implementation of a Six Degree of Freedoms Parallel Robot", July 2001, Faculty of Engineering, Ain Shams University.

SKILLS:

- **Computer Skills:** Kotlin, System Dynamics, SPSS, ILOG CPLEX, COIN, Arena, ProModel, FlexSim, MatLab, Visual C++, Visual Basic, AutoCAD, LABVIEW.
- **Languages:** Arabic as mother tongue, English fluently spoken and written

EXPERIENCE:

Professor

June 2022-Current

Associate Professor

September 2017-June 2022

Vice-Dean of Post-Graduate Studies and Research

August 2016-Current

College of International Transport and Logistics, Arab Academy for Science and Technology, Cairo, Egypt

- Reach an agreement with APICS, the most famous training organization in the field of Supply Chain Management and Logistics.
- Reach collaboration agreements with renowned world class universities including MIT.
- Designed the academic study plan and prepared the education file for our new international branch (under construction).
- Started new joint and dual international graduate level degrees.
- Proposing two new postgraduate degrees.

- Participated in the team responsible for FIBAA, NAQAA, and ISO accreditation.
- Outstanding contributing reviewer at the journal of Computers and Industrial Engineering.
- Outstanding contributing reviewer at the journal of cleaner production.
- Associate editor at the International Journal of Industrial Engineering: Theory, Applications and Practice.

Visiting Professor

August 2015- July 2016

College of Engineering and Applied Science, University of Wisconsin-Milwaukee, Milwaukee, USA

- Teach statistics, operations research and simulation courses with an outstanding evaluation with at least 4.3/5.
- Apply for an RGI proposal “Dispatching and Routing of Conventional and Green Trucks to Reduce CO₂ Emissions under Tight Resource Requirements”
- Develop an NSF proposal entitled “Multi objective plan for water-energy nexus under water or energy shortage”
- Advise a couple of PhD students and participate in thesis defense committee.
- Work on several research papers.
- Negotiate dual and joint degrees between AAST and UWM

Vice-Dean of Education

October 2014- July 2015

Head of the department of Supply Chain Management

June 2011- July 2015

Assistant Professor

College of International Transport and Logistics, Arab Academy for Science and Technology, Cairo, Egypt

- Participated in the agreement with University of Toledo to exchange undergraduate and post graduate students.
- Jointly lead a team with my colleague Prof Mohammed Elbeheiry to start the department of Supply Chain Management in our college as the first of its type in Egypt.
- Was the one responsible for adding simulation to the course of supply chain modeling; and lean and SCOR to the course of global supply chain management.
- Designing and Implementing an IS software to optimize planning the educational process.
- Training Industry personnel in different training programs including logistics and supply chain managements with companies such as Siemens Healthcare and the Egyptian customs.
- Lead the team for ISO and NAQAA accreditation.
- School teaching and research planning.
- TA’s Supervision and guidance.
- Actively participating in proposal writing.
- Teach undergraduate and postgraduate classes.
- Advising several master and PhD students.

Assistant Professor

May 2010- June 2011

Faculty of Engineering, Ain Shams University, Cairo, Egypt

- Actively participating in proposal writing.
- Taught undergraduate and postgraduate classes.

August 2006 – May 2010

Research and Teaching Assistant

Industrial and Manufacturing Engineering University of Wisconsin-Milwaukee, Milwaukee, WI

- **Simulation of the dispatching function at WLT:** A project funded by Wisconsin Lift Trucks Co. (WLT) to improve its dispatching function. Conducted statistical data analysis using Minitab, Simulation programming using ProModel, and writing the final technical report. Project carried under supervision of Prof Jaejin Jang of UWM
- **“On-Time Service for Distributed Areas: Dynamic Vehicle Routing with Time Window Constraints:”** A project funded by MiTAG to improve material handling in warehouse through using RFID tags and sensors and used in online real time storage and picking up goods. Developed an algorithm for VRPTW, programming an analysis software using VB, simulation programming using

Arena, and writing a technical report. Project was carried out under the supervision of Prof Jaejin Jang of UWM.

- Taught undergraduate classes including Statistics for Introductory Statistics Physical Sciences and Engineering (IND-ENG 467 for 5 semesters with a rating of at least 4/5 and above)
- TA for Engineering Economics for undergraduate students and Biostatistics for graduate students.
- Assisted in the Development of the ABET folder requirement.
- PA for multiple projects

Consultant Engineer

August 2004 - August 2006

Allied for Training and Consulting

- **Planning Activities Improvement at “Hi-Tek Company”:** “Hi-Tek company” is specialized in the design and production of filling and packaging machines as specified by the customer, but, due to the huge number of produced parts they face problems in planning department. We designed a comprehensive planning system according to their needs.
- **Technical Assessment of Al industry sector at Mit Ghamr:** Mit Ghamr is a small city that has an effective role in Egypt. It collects the metallic scrap from the whole country and recycles them. The most important metal they recycle is Al. There are 30 Cast Foundry and over 3000 small workshop there. Our mission was to technically assess the technology they use and supply them with the possible enhancement.
- **Technical Assistant for E-med Company:** E-med is a company specialized in the manufacture of human medical parts for operations. It imports parts and process them as required. It aims to produce the whole parts locally. So, they seek technical assistance from us in choosing the required machines, layout, jigs and fixtures.
- **Skills Improvement of Die Design Sector at 6th October City:** Many companies in 6th October city face difficulties in die design. Our mission was to technically assess their practice their and provide possible improvements. A comprehensive training course was provided to improve employees’ skills.
- **Technical Assessment of Royal Pack Production Practice:** Royal pack is specialized in food production and they face some internal difficulties, our mission was to assess their practice in all departments and supply them with possible improvements.

Consultant Engineer

August 2001 - August 2005

Scientific Services Company

- **Data acquisition and analysis:** As a result of experience in programming skills and hardware, carried out projects that include gathering and analysis of biomedical activities for labs, and gathering and analysis of the vibration signals of bridges. Occasional part time job.

Lecturer

August 2001 - August 2006

Production Engineering Department, Ain Shams

University, Cairo, Egypt

- Taught undergraduate classes including: Quality control, Quality Engineering, Work Study, Operations Research, Project Management, Facility Layout, Engineering Economics, Technical Report Writing, Production Workshop, and Material Mechanical Properties
- Assisted in Student’s Senior Projects
- Assisted in the Development of the Department Monthly Report and Journal

Lecturer

August 2001 - August 2006

Akhbar El Youm Academy, Cairo, Egypt

- Taught undergraduate classes including: Operations Research, Operation Management, Quality Control, and Production Workshop. Part time job

Part-Time Lecturer

August 2001 - August 2006

**Arab Academy for Science and Transportation,
Cairo, Egypt**

- Taught undergraduate classes including: Operations Research, Operation Management, Quality Control, and Production Workshop. Part time job

Mechanical Engineer Intern

June 1998 - August 1998

Suzuki Car-Manufacturing Egypt Plant

- Knowledge of the assembly line stations
- Knowledge of the quality control procedures
- Knowledge of the painting procedures

Mechanical Engineer Intern

June 1999- August 1999

Egyptian-Japanese Company for Metal Forming and Machining

- Egyptian-Japanese Company is specialized in design and manufacturing of mechanical parts and machines as required by the customers
- Involved in the products design procedures
- Tracked the forming and machining of the products
- Supplied feedback of possible improvements in the machining and forming practices

International student exchange

June 2000 - August 2000

BAM Berlin

BAM Berlin is a research based center located in Berlin. A member of a team studying the effect of different parameters of the spot welding processes.

- Conducted spot welding experiments with varying parameters
- Participated in the analysis of the parameters effect

Lecturer

June 1994 - August 1994

IBIS Computer Training Company

- Taught C language course for students

FUNDS:

- Tempus fund of "Industrial Engineering and Management Sciences: New Postgraduate Programs" with the following partners, AAST share €150,000:
 1. Faculty of Engineering, Ain Shams University [ASU], Egypt
 2. Faculty of Engineering, Fayoum University [FU], Egypt
 3. College of Logistics and International Transport, Arab Academy for Science, Technology & Maritime Transport [AAST], Egypt
 4. Faculty of Engineering, Misr University for Science & Technology [MUST], Egypt
 5. Jönköping University [JTH], Sweden
 6. Otto von Guericke University [OvGU], Germany
 7. University of Nottingham [UNOTT], United Kingdom
 8. University of Oviedo [UNIOVI], Spain
 9. Clausthal University of Technology [TUC], Germany
 10. ABB for Electrical Industries [ABB], Egypt
 11. Procter and Gambel Egypt [P&G], Egypt
 12. Leoni Wiring System [LWSEG], Egypt
- Ministry of Internal Trade, "Developing opportunities for logistics centers in key cities", 2017.
- Ministry of Urban Planning, "Planning the logistics and supply chain requirements in the Egyptian regional highway system", 2014.
- Ministry of Internal Trade, "Assessing the logistics performance of the proposed international grains logistics center in Damietta", 2014.
- Scientific Research and Innovation Unit, AAST, " A comprehensive model for planning the educational process in higher education", PI, 2015, ~\$20,000

SPECIAL PROJECTS:

I designed and implemented a software that performs most of the academic planning activities within College of International Transport and Logistics including enrolment forecasting, electronic academic advising, exam scheduling, examination rooms assignment, and books ordering among other tasks. I used different programming languages including VB.Net and VC++ beside several optimization tools including ILOG CPLEX and MatLab

PUBLICATIONS:

- ElBehairy M., Abdallah, K., “The effect of different SC formulations on the bullwhip effect”, working paper.
- Abdallah K.S., Adel Y., “AN ENHANCED GAP ANALYSIS MODEL FOR INFORMATION SYSTEMS SECTOR (ISSERVQUAL)”, submitted paper.
- Ezzat, A., Abdallah, K.S. & Adel, Y., 2023, ‘Evaluating liquefied natural gas export quantities from Egypt using system dynamics approach’, South African Journal of Economic and Management Sciences 25(1), a4766. <https://doi.org/10.4102/sajems.v25i1.4766> (Q2)
- Abdallah, K.S. & El-Beheiry, M.M., 2022, ‘The effect of planning horizon and information sharing on the optimisation of the distribution network of a fast moving consumer goods supply chain’, Journal of Transport and Supply Chain Management 16(0), a788. <https://doi.org/10.4102/jtscm.v16i0.788> (Q3)
- Abdallah, K. S., & M. El-Beheiry, M. 2022. A SYSTEM DYNAMICS MODEL ASSESSING THE SUSTAINABILITY OF THE PERFORMANCE OF SUPPLY CHAINS WITH REVERSE FLOW. *International Journal of Industrial Engineering: Theory, Applications and Practice*, 29(4). <https://doi.org/10.23055/ijietap.2022.29.4.8115> (Q3)
- Ezzeldin A. I. and Mohamed T. A. and Abdallah. K. S. 2022 Improving the productivity of an assembly production line utilizing lean tools and simulation: a case study. *Int. J. of Six Sigma and Competitive Advantage. International Journal of Six Sigma and Competitive Advantage (IJSSCA)*, Vol. 14, No. 2. (Q3)
- Abdallah K. S., Adel Y., MOSTAFA S. (2021) Improving the Strategic Distribution Performance of the Supply Chain of a Leading FMCG Company: a Case Study. 2021 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2021).
- Abdallah K. S., Adel Y. (2020) Electric Vehicles Routing Problem With Variable Speed And Time Windows. The International Conference on Industry, Engineering, and Management IEMS, Clear Water Beach, Florida, USA.
- Abdallah K. S., Adel Y. (2020) ASSESSING THE INTERNET SERVICE PROVIDERS IN EGYPT. *Journal of Management & Engineering Integration* 13 (1), 63-70.
- Selim Y. H.; Fanous N., Abdallah, K. S. (2019) THE IMPACT OF THE USE OF TRANSPORTATION MEANS FOR STRATEGIC GOODS BETWEEN CITIES IN EGYPT ON THE FUEL CONSUMPTION RATE AND EMISSIONS AMOUNT. *Journal Of Environmental Science*, 46(2), 1-302. doi: 10.21608/jes.2019.69643
- Abdallah K. S. & Taha R. B. (2019) A Genetic Algorithm for Battery-Based Energy Storage Transportation Using Railway. *Journal of Management & Engineering Integration* 12 (2), 27-41
- Abdallah, K., & Jang, J. (2019). FAMILY SPLITTING ALGORITHM FOR A SINGLE MACHINE TOTAL TARDINESS SCHEDULING PROBLEM WITH JOB FAMILY SETUP TIMES. *International Journal Of Industrial Engineering: Theory, Applications And Practice*, 26(4). (Q3)
- Beheiry, M., & Abdallah, K. (2019). Developed priority rules support system for ELSP: a case study. *International Journal of Industrial And Systems Engineering*, 32(3), 405. doi: 10.1504/ijise.2019.101330 (Q3)
- Hajiaghahi-Keshteli, M., Abdallah, K., Fathollahi-Fard, A. (2018). A Collaborative Stochastic Closed-loop Supply Chain Network Design for Tire Industry. *International Journal of Engineering*, 31(10), 1715-1722. (Q2)
- Abdallah, K, Samie, M, 2017, “Improving and Assessing Logistics Port Operations in Sokhna Port”, *Journal of Supply Chain Management: Research & Practice*.

- Elbeheiry, M, Abdallah, K., 2017, “Modelling And Simulation Of Economic Lot Size Scheduling Problem: A Case Study”, The 23rd ICE/IEEE International Technology Management Conference, Madeira Island, Portugal.
- Abdallah, K., Jang, J., 2017 “Scheduling a single machine with job family setup times to minimize total tardiness”, The 23rd ICE/IEEE International Technology Management Conference, Madeira Island, Portugal.
- Abdallah, K, Mohamed, A., 2017, “Modeling Sustainable Truck Rental Operations Using Closed-Loop Supply Chains Network”, International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, Volume 11, No 6, 2017 , pages (1106-1112).
- Abdallah, K, 2016, “Multi-objective Optimization for Exam Scheduling to Enhance the Educational Service Performance”, Journal of Management and Engineering Integration, 9 (1), 14-23.
- Abdallah, K, 2016, “Optimizing The Scheduling Of Mammorgam Preventive Screening”, Proceedings of the 46th International Conference on Computers and Industrial Engineering, Tianjin, China.
- Abdallah, K, ElBehairy M., 2016, “Factors Affecting The Bullwhip Phenomenon When Reverse Supply Chain Flow Exists”, Proceedings of the 46th International Conference on Computers and Industrial Engineering, Tianjin, China.
- Raghda Taha R, Khaled Abdallah K, Sadek Y, El-Kharbotly A, Afia N, 2015, “Multi-Objective Supply Chain Network Design Under Demand Uncertainty using Robust Goal Programming Approach”, The 5th International Conference on Operations Excellence and Service Engineering Orlando, Florida, USA, September 10-11, 2015 ISBN: 978-0-9855497-3-2, ISSN: 2169-8767.
- Abdallah K.S., Jang J., 2014, “Exact Solution for Vehicle Routing Problem with Semi-hard Resource Constraints”, Computers & Industrial Engineering, pp. 366-377. (Q1)
- Taha R., Abdallah K., Sadek Y., El-Kharbotly A., Afia N., " Design of Supply Chain Networks with Supply Disruptions using Genetic Algorithm", 2014 POMS Annual Conference Proceedings, 9 -12 May 2014, Atlanta, U.S.A
- M. Sami, Abdallah, K., “Evaluating KPIs of the Egyptian ports using RFID”, Marlog 3 Proceedings, 8-11 March 2014, Alexandria, Egypt.
- Abdallah, K., ElBehairy M., “A comprehensive model for planning the educational process in higher Education” The 43rd International Conference on Computers and Industrial Engineering (CIE43), Hong Kong, October 16-18, 2013. ISSN 2164-8670.
- Abdallah K. S., 2010, “Vehicle Routing Problem with Semi-hard Resource Constraints”, PhD thesis, UWM.
- Abdallah, K. S., 2004, “Quality Assurance for Information Systems”, Master thesis, Ain Shams University.

TRAINING COURSES:

Quality Control	Time and Motion Study
Inventory Control	Simulation
Warehousing	Logistics Management
Project Management	Forecasting
Supply Chain Management	Decision Support
Logistics Decision Support	Logistics information Systems
Lean Six Sigma Supply Chain	

UNDERGRADUATE COURSES:

Supply Chain Management	Logistics Management
Global Supply Chain Management	Supply Chain Modeling
Quality Control	Inventory Control
Simulation	Statistics for Engineers
Warehousing	Engineering Economy
Project Management	Operations Research
Forecasting	Operations Management
Logistics Decision Support	Production Planning
Logistics information Systems	Lean Six Sigma Supply Chain

POSTGRADUATE COURSES:

Operations Management	Supply Chain Management
Decision Support	Simulation
Global Supply Chain Management	Supply Chain Modeling
Modeling	Project Management

RECOGNITION AND AWARDS:

- Chancellor Award for graduate student from University of Wisconsin Milwaukee (2006-2010)
- Recognition for being the top of my department at Graduation from Design and Production Engineering Department, Ain Shams University (2001)
- Recognition for being the top of my department at 3rd year Design and Production engineering Department (1998)
- Best Graduate paper, IEOM 2015.
- Outstanding contributing reviewer at the journal of cleaner production, 2018.
- Outstanding contributing reviewer at the journal of Computers & Industrial Engineering, 2018.