

1. Name: **Ahmed Shaban Shaban Khalifa**
2. Education – degree, discipline, institution, year: -
 - PhD: Industrial Engineering, Sapienza University of Rome, Italy, 2014
 - MSc: Industrial Engineering, Cairo University, Egypt, 2010
 - BSc: Industrial Engineering, Fayoum University, Egypt, 2006
3. Academic experience – institution, rank, title (chair, coordinator, etc. if appropriate), when (ex. 1990-1995), full time or part time: -
 - Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Oman
 - Associate Professor, 2023-Present, full time.
 - Department of Mechanical Engineering, Fayoum University, Egypt
 - Associate Professor, 2020-2023, full time.
 - Assistant Professor, 2015-2020, full time.
 - Assistant Lecturer, 2010-2015, full time. (Study Leave)
 - Demonstrator, 2006-2010, full time.
 - Department of Mechanical and Aerospace Engineering, Sapienza University of Rome, Italy
 - Researcher, 2014-2015, full time.
4. Non-academic experience – company or entity, title, brief description of position, when (ex. 1993-1999), full time or part time: -
5. Certifications or professional registrations: -
 - Energy Management Systems and ISO 50001-2018 Within the Context of Governmental Excellence, National Quality Institute & NI Consulting Academy, Egypt, December 2022.
 - Innovation Management Systems and ISO 56002:2019 Within the Context of Governmental Excellence, National Quality Institute & NI Consulting Academy, Egypt, August 2022.
6. Current membership in professional organizations: -
 - Associate Editor, Fayoum University Journal of Engineering (ISSN: 2537-0626)
 - Syndicate of Egyptian Engineers (Egypt)
 - The Federation of Arab Engineers
 - International Society for Inventory Research (Hungary, 2012-2013)
7. Honors and awards: -
 - Fayoum University Award for Excellence in Scientific Research, March 2023.
 - Fayoum University Encouragement Award for Excellence in Promotion to the Academic Rank of Associate Professor, March 2022.
 - Faculty of Engineering Award for Excellence in Promotion to the Academic Rank of Associate Professor, Fayoum University, 2021.
 - Fayoum University Award for Excellence in International Scientific Publishing, (2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022).
8. Service activities (within and outside of the institution): -
 - Deputy Director of the Quality Assurance & Accreditation Unit (QAAU) at the Faculty of Engineering, Fayoum University (2016-2023).
 - Excellence Ambassador and Faculty of Engineering Coordinator for Egypt Government Excellence Award, Fayoum University (2020-2023).
 - Head of the Departmental Committee for Developing the Strategic Research Plan 2016-2021 of the Mechanical Engineering Department, Fayoum University.
 - Head of the Graduate Committee for Formulating the Admission Rules of the PhD Programs offered by the Mechanical Engineering Department, Fayoum University (2022).

- Head of the Departmental Committee for Developing the Bylaw and Curriculum of the BSc Programs at the Mechanical Engineering Department, Fayoum University (2021-2022).
- Head of the Industrial Engineering (IE) Committee for Developing the Bylaw and Curriculum of the Industrial Engineering Graduate Programs at the Mechanical Engineering Department, Fayoum University (2021-2022).
- Head of the Exams Management & Control Committee for the Diploma and Preliminary Stage at Faculty of Engineering, Fayoum University (2020-2023).
- Chairman of Industrial Engineering Research Group within multi-disciplinary research projects teams.
- PI and Co-PI for a number of funded research projects.
- Acting as a reviewer and serving on the editorial boards of numerous prestigious international journals

9. Briefly list the most important publications and presentations from the past five years: -

- **Ahmed Shaban**, Fatma-Elzahraa Zaki, Islam H. Afefy, Giulio Di Gravio, Andrea Falegnami, and Riccardo Patriarca. "An Optimization Model for the Design of a Sustainable Municipal Solid Waste Management System." *Sustainability*, May 2022, 14(10), p.6345. DOI: 10.3390/su14106345
- **Ahmed Shaban**, Ahmed Abdelwahed, Giulio Di Gravio, Islam H. Afefy, and Riccardo Patriarca. "A systems-theoretic hazard analysis for safety-critical medical gas pipeline and oxygen supply systems." *Journal of Loss Prevention in the Process Industries*, July 2022, 77C, 104782. DOI: 10.1016/j.jlp.2022.104782
- **Ahmed Shaban**, George Ayad, and Neamat G. S. Ahmed. "Integration of Simulation Modelling and Lean Management to Improve Patient Flow at Outpatient Clinics." *International Journal of Productivity and Quality Management*, August 2022, 36(3), 439-458. DOI: 10.1504/IJPQM.2021.10037227
- **Ahmed Shaban**, Hagag Maher, Mahmoud Elbayoumi, and Suzan Abdelhady. "A cuckoo load scheduling optimization approach for smart energy management." *Energy Reports*, November 2021, 7, 4705-4721. DOI: 10.1016/j.egyr.2021.06.099
- Suzan Abdelhady, Mohamed A. Shalaby, and **Ahmed Shaban**. "Techno-Economic Analysis for the Optimal Design of a National Network of Agro-Energy Biomass Power Plants in Egypt." *Energies*, May 2021, 14(11), p.3063. DOI: 10.3390/en14113063
- **Ahmed Shaban**, Francesco Costantino, Giulio Di Gravio, and Massimo Tronci. "Coordinating of multi-echelon supply chains through the generalized (R, S) policy." *SIMULATION*, 96 (9), September 2020, 767-778. DOI: 10.1177/0037549720920708
- **Ahmed Shaban**, Mohamed A. Shalaby, Giulio Di Gravio and Riccardo Patriarca. "Analysis of variance amplification and service level in a supply chain with correlated demand." *Sustainability*, 12(16), August 2020, 6470. DOI: 10.3390/su12166470
- **Ahmed Shaban**, Francesco Costantino, Giulio Di Gravio, and Massimo Tronci. "A new efficient collaboration model for multi-echelon supply chains." *Expert Systems with Applications*, 128, August 2019, 54-66. DOI: 10.1016/j.eswa.2019.03.026
- **Ahmed Shaban**, and Mohamed A. Shalaby. "Modeling and optimizing of variance amplification in supply chain using response surface methodology." *Computers & Industrial Engineering*, 120, June 2018, 392-400. DOI: 10.1016/j.cie.2018.04.057

10. Briefly list the most recent professional development activities: -

- Creative Scientific Thinking, Fayoum University, Egypt, 15-17 September 2020.
- Course Description, Fayoum University, Egypt, 28-30 December 2019.
- Competitive Research Projects, Fayoum University, Egypt, 12-14 October 2019.
- University Management, Fayoum University, Egypt, 27-29 June 2015.