



Curriculum Vitae
Omayma Nada, Ph. D.
Associate Professor,
 Menofia University, Egypt
 Northern Boarder University – Kingdom of Saudi Arabia

Personal Info

Full Name	Omayma Abdel Aziz Mohamed Nada
Date of Birth	2 nd August 1972
Marital status	Married
Birthplace	Menouf, Minofia, Egypt
Nationality	Egyptian

Contact Info

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Education

Ph.D. (2006) in Industrial and Manufacturing Systems Engineering, University of Windsor, Canada

(The Supreme Council of Universities in Egypt has equated the degree with Ph.D. in Industrial Engineering in 2006)

Thesis Title: “Quality Prediction in Manufacturing System Design”

M.Sc. (2000) in Production Engineering, Dept. of Production Engineering and Mechanical Design, Faculty of Engineering, Menofia University, Egypt.

Thesis Title: “Impact of Machine Duplication on Process Quality in Manufacturing Systems”

B.Sc. (1995) in Production Engineering and Mechanical Design, Faculty of Engineering, Menofia University, Egypt. *(Overall rate of appreciation: very good with honor degree)*

Work Experience

- Associate Professor, Industrial Engineering Department, Faculty of Engineering, Northern Border University, KSA (December 2024-Present)
- Associate Professor, Production Engineering and Mechanical Design Department, Faculty of Engineering, Menofia University, Egypt (25th May 2021-Present)
- On special leave to work as an associate professor and working as the Head of Prosthetics and Orthotics Department, Faculty of Industrial Technology and Energy, Delta Technological University, Egypt (September 2021- 2024)
- Assistant Professor, Production Engineering and Mechanical Design Department, Faculty of Engineering, Menofia University, (26th November 2006- 24th May 2021)
- Special leave for working as assistant professor in the Department of Managerial Information Systems, Faculty of Business and Economics, Qassim University- Kingdom of Saudi Arabia (2007-2010)
- Special partial leave for working as assistant professor, Mechanical Engineering Department, Faculty of Engineering, Modern University of Technology and Information (MTI), Egypt (2015-2016)
- Teaching Assistant, Production Engineering and Mechanical Design Department, Faculty of Engineering, Menofia University, Egypt (14th March 2000- 25th November 2006)
- Graduate Assistant (During PhD study), University of Windsor, Canada (2001-2006)
- Demonstrator, Production Engineering and Mechanical Design Department, Faculty of Engineering, Menofia University, Egypt (18th November 1995 - 13th March 2000)

Teaching Experience

Teaching the following undergraduate courses at Menofia University, Egypt

Total Quality management, Production Quality Control, Industrial Statistics, Production Engineering, and Basics of Engineering Graphics

Teaching the following graduate courses at Menofia University, Egypt

Production and Operations Management, Total Quality Control, Production Planning and Control, and Total Quality Management

Teaching the following undergraduate courses at Delta Technological University, Egypt

Health, safety and risk assessment in workplaces, Material selection, 3D CAD and Mechanical Modeling, Prosthetics and orthotics materials.

Teaching the following undergraduate courses at MIT University, Egypt

Industrial management, and quality control

Teaching the following undergraduate courses at Qassim University, KSA

Introduction to management science, Production and operations management, Statistics in business and economy, Mathematics in social sciences, Theory of decision making

Teaching the following undergraduate courses (as a graduate assistant responsible for the tutorials and labs) at University of Windsor, Canada

Engineering Economy, Operations Research I, Operations Research II, Simulation of Industrial Systems, and Industrial Safety and Health

Administrative Activities

- Member of the post graduate studies committee, Faculty of Engineering, Menofia University (2018-2019)
- Member of the accreditation committee in the production engineering and mechanical design department
- Member of the organizing committee for the third International Conference of the Faculty of Engineering, Menofia University in Sharm El-Sheikh – Egypt 2020.
- Member of the organizing committee for the fourth International Conference of the Faculty of Engineering, Menofia University in Hurghada – Egypt 2022.
- Member of the organizing committee for the first international conference for technological university education organized by Delta Technological University (to be held in Cairo, Egypt May 2022)
- Working as the Head of Prosthetics and Orthotics Technology Department, Faculty of Industrial Technology and Energy, Delta Technological University, Egypt (September 2021- 2024)

Awards and Scholarships

- University of Windsor Visa Differential Fee Bursary (from fall 2001 to winter 2004)
- University of Windsor International Graduate Student Scholarship (from summer 2004 to winter 2006)
- Menofia University Award for distinguished international Scientific Publications in May 2021

Participation in International Conferences

- International Workshop on Advanced Manufacturing Technologies (AMT), June 1-2, 2004, London, Ontario, Canada
- 16th CIRP International Design Seminar: Design & Innovation for Sustainable Society, July 16-19, 2006, Kananaskis, Alberta, Canada
- 1st CIRP International Seminar on Assembly Systems, November 15-17, 2006, Stuttgart, Germany
- 20th International Conference on Environmental Engineering and Protection, January 22-23, 2018, Dubai, UAE
- 18th International Conference on Applied Mechanics & Mechanical Engineering, April 3-5, 2018, Military Technical College, Cairo, Egypt

Research Interests

- Production planning and control
- Application of artificial intelligence in manufacturing
- Quality control and process monitoring
- Modeling and simulation of manufacturing systems
- Manufacturing system design
- Lean six sigma and process improvement
- Multi criteria decision making

Supervised Scientific Theses

- **Process Improvement Using Lean Six Sigma, M. Sc. in production engineering, Menoufia University (Eng./ Zainb M. El-Dardery, 2014 *(Approved)*)**
- **Process Quality Control and Improvement Using Multivariate Control Charts, M. Sc. in production engineering, Menoufia University (Eng./ Mohamed H. Abo-Hawa, 2015) *(Approved)***
- **Machining of hybrid stacked materials made of metal alloys and polymeric matrix composites, Ph.D. in production engineering M. Sc. in production engineering Eng./ Mohamed S. Nagi, 2017) *(In progress)***
- **Comparative Analysis of Multi Criteria Decision Making Methods under Uncertainty, M. Sc. in production engineering, Menoufia University (Eng. / Sara S. Mahmoud, 2018) *(Approved)***

Training courses

- **Qualifying university professors training course (Menoufia University, 2001)**
- **Training course (Legal aspects in universities), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2006)**
- **Training course (Modern trends in teaching), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2006)**
- **Training course (Profession ethics), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2006)**
- **Training course (Preparing research project), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2006)**
- **Training course (Managing research team), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2019)**
- **Training course (Life learning), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2019)**
- **Training course (Using scientific databases), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2019)**
- **Training course (Crisis and disaster management), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2019)**
- **Training course (Time and meeting management), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2019)**
- **Training course (Using mind mapping skills), the Faculty and Leadership Development Program (FLDP) (Menoufia University, 2019)**
- **Fundamentals of E-learning skills training course (online 2020)**
- **Fundamentals of digital transformation training course, (Menoufia University 2021)**

PUBLICATIONS

ElKhabery, M. M., ElSawy, A. A., and **Nada, O. A.**, (1999), Impact of quality considerations on duplication decisions in assembly line balancing problems, *Scientific Bulletin of the Faculty of Engineering, Ain Shams University*, 34(4).

Nada, O. A., Elmaraghy, H. A., and Elmaraghy, W. H., (2004), A Conceptual framework for Six-Sigma manufacturing System Configuration Quality Zone, *International Workshop on Advanced Manufacturing Technologies (AMT)*, 1-2 June, 2004, London Ontario, Canada, Ontario, Canada.

Nada, O. A., Elmaraghy, H. A., and Elmaraghy, W. H., (2006), A Quality Based Assessment of Manufacturing System Design Alternatives, *Proceedings of the 16th CIRP International Design Seminar*, July 16-19, 2006, Kananaskis, Alberta, Canada.

Nada, O. A., Elmaraghy, W. H., and Elmaraghy, H. A., (2006), Quality Prediction due to Human Performance Variation in Manufacturing and Assembly, *Proceedings of the 1st CIRP International Seminar on Assembly Systems*, November 15-17, 2006, Stuttgart, Germany.

Nada, O. A., Elmaraghy, H. A., and Elmaraghy, W. H., (2006), Quality Prediction in Manufacturing System Design, *Journal of Manufacturing Systems*, 25(3), 153-171.

Elmaraghy, W. H., **Nada, O. A.**, and Elmaraghy, H. A., (2008), Quality Prediction for Reconfigurable Manufacturing Systems via Human Error Modelling, *International Journal of Computer Integrated Manufacturing*, 21(5), 584-598.

Abo-Hawa, M. H., Sharaf El-Din, M. A., and **Nada, O. A.**, (2016), Monitoring Production Processes Using Multivariate Control Charts, *International Journal of Advanced Engineering and Global Technology*, 4(4), 2093-2104.

Khader, K. M., Elimy, M. I., and **Nada, O. A.**, (2018), Multi-Criteria Selection and Improvement of Effective Design for Generating Power from Sea Waves, *Proceedings of the 20th International Conference on Environmental Engineering and Protection*, January 22-23, 2018, Dubai, UAE.

Khader, K. M., **Nada, O. A.**, and Attia, E-A., (2018), Design of a Combined Tube Feeding and Cutting Mechanism Using Design for Six Sigma Approach, *Proceedings of 18th International Conference on Applied Mechanics & Mechanical Engineering*, April 3-5, 2018, Military Technical College, Cairo, Egypt.

Abo-Hawa, M. H., Sharaf El-Din, M. A., and **Nada, O. A.**, (2018), Multivariate Process Capability Assessment and Improvement: A Case Study, *Proceedings of 18th International Conference on Applied Mechanics & Mechanical Engineering*, April 3-5, 2018, Military Technical College, Cairo, Egypt.

Khader, K. M., and **Nada, O. A.**, (2019), Efficiency Enhancement of Sea Waves Energy Converter via Lean Principles Using an Effective Mechanical Mechanism, *Engineering Research Journal, ERJ, Faculty of Engineering, Menoufia University*, 42(1), 1-9.

Nada, O. A., (2019), A Framework for Enhancing the Responsiveness to Defects via SPC and Worker Empowerment, *Engineering Research Journal, ERJ, Faculty of Engineering, Menofia University*, 42(1), 11-20.

Attia, E-A., Khader, K. M., and **Nada, O. A.**, (2019), Mistake Proofing Cam Mechanism through Six- Sigma Process: Case Study on Clothes Printing Machines, *International Journal of Engineering, IJE Transactions C: Aspects*, 32(3), 438-444.

Nada, O. A., (2019), A Multi-Criteria Decision Making Model for Ceramic Tiles Conveyor Selection, in *Engineering Research Journal, ERJ, Faculty of Engineering, Menofia University*, 42(3), 211-217.

Khader, K. M., & **Nada, O. A.** (2020). Using crank-crank mechanism to reorient flat blades of vertical wind turbine for improving its performance. *Alexandria Engineering Journal*, 59(6), 4147-4157.

Eldardiry, Z., El-Dardiry, M. A., & **Nada, O. A.** (2021). A Conceptual Framework for Reducing Changeover Time in Batch Production Facilities. *International Journal of Engineering Research and*, 10 (1), 236-240.

Nada, O. (2022). Fuzzy TOPSIS for Ranking Wave Energy Converters. *ERJ. Engineering Research Journal*, 45(4), 531-539.

Nada, O. A., El-Dardiry, M. A., and El-Dardiry, Z. E., (2025) Changeover Time Reduction in TV Assembly Line Using Lean Six Sigma: A Case Study, *International Journal of Six Sigma and Competitive Advantage*. 15 (2), 164-185. <https://doi.org/10.1504/IJSSCA.2024.145397>

Nada, O. A., Elamy, M. I., Salman, M. M., Khader, K. M., & Deabs, A. A. (2025). Using Design for Six Sigma to develop an Innovative Porous Tibial Implant and Assessing the Proposed Design using Finite Element. *Results in Engineering*, Volume 27, 106646. <https://doi.org/10.1016/j.rineng.2025.106646>