

Dr. Nader Santarisi

الدكتور نادر السنتريسي

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NATIONALITY: Jordanian.

EDUCATION:

Ph.D. Industrial Engineering, May 1993. The University of Iowa, Iowa City, Iowa, USA.

M.Sc. Industrial Engineering, Sept 1990. The University of Jordan, Amman, JORDAN.

B.S. Mechanical Engineering, June 1984. The University of Jordan, Amman, JORDAN.

WORK EXPERIENCE:

1. Experience as a UNIVERSITY PROFESSOR:

Associate Professor, Industrial Engineering, The School of Applied Technical Sciences (SATS), The German Jordanian University (GJU), Jordan, September 2026 – present.

Associate Professor, Industrial Engineering, Faculty of Engineering Technology and Sciences, Dubai Women's Campus, Higher Colleges of Technology, Sharjah, UAE, August 2022 – 31 July 2026

Associate Professor, Mechanical & Industrial Engineering Department, Applied Science Private University, Amman, JORDAN, October 2020 – August 2022.

Associate Professor, Industrial Engineering Department, University of Jordan, Amman, JORDAN, June 2006 – June 2009.

Chairman of Industrial Engineering Department, University of Jordan, Amman, JORDAN, September 1997- September 1999, and September 2005 - September 2006.

Associate Professor and Chair, Industrial Engineering Department, ALHOSN University, Abu Dhabi, UAE, August 2007 – August 2008 (Sabbatical Year).

Director of the Quality Assurance, at University of Jordan-level, September 2006 – August 2007.

Dean Assistant, Faculty of Engineering & Technology, University of Jordan, Amman, JORDAN, September 2001- September 2002.

Visiting Professor, through DAAD, University of Bremen, Germany, June-August 1999.

Assistant Professor, Industrial Engineering Department, University of Jordan, Amman, JORDAN, July 1993- June 2006.

Teaching Assistant, Industrial Engineering Department, University of Iowa, Iowa, USA, January 1993-May 1993.

COURSES TAUGHT:

- Total Quality Management (M.Sc., B.Sc. Levels).
- Operations Management (Ph.D., M.Sc. Levels).
- Lean Thinking & Six Sigma (B.Sc. Level).
- Sustainability (B.Sc. Level).
- Quality Assurance (B.Sc. Level).
- Advanced Quality Control (M.Sc. Level).
- Special Topics in Industrial Engineering: TQM, ISO 9000, Excellence Awards, and JIT (B.Sc. Level).
- Advanced Production Planning and Control (M.Sc. Level).
- Reliability and Quality Control (B.Sc. Level).
- Materials and Manufacturing Engineering (B.Sc. Level).
- Project Management (Ph.D., B.Sc. Levels).
- Introduction to Industrial Engineering (B.Sc. Level).
- Studies in Design & Manufacturing (M.Sc. Level).
- Studies in Engineering Management (M.Sc. Level).

- *Production Planning and Control (B.Sc. Level).*
- *Manufacturing Processes (B.Sc. Level).*
- *Decision Systems (B.Sc. Level).*
- *Lean Production Systems (B.Sc. Level).*
- *Financial Analysis and Cost Accounting (B.Sc. Level).*
- *Engineering Cost Analysis (B.Sc. Level).*
- *Economy and Engineering Management (B.Sc. Level).*

MASTER THESES SUPERVISED:

- *Developing a Methodology to Plan and Manage Manufacturing Automation Projects.*
- *Developing a Maintenance Management System for Cement Industry in Jordan.*
- *Developing of a Production Planning Strategy for a Wood Furniture Plant.*
- *The Effect of Organizational Structures and Cultures on the Implementation of Just-In- Time System in the Pharmaceutical Industries in Jordan.*
- *Job shop Scheduling Problem with Due Date Constraint Considering Overtime.*
- *Improving the Quality of the Overhaul of Engines in the Public Security Workshops.*
- *Developing a Spare Parts Inventory Control System for Cement Industry in Jordan.*
- *Determining Kanban Levels in a Multi-Stage Just-In-Time Manufacturing System.*
- *Comparison Between Just-In-time Purchasing and The Economic Order quantity Model: Mathematical Modeling.*
- *Improving quality Through Analyzing Repeatability and reproducibility of Measuring devices for a Wood Industry Company (Case Study).*
- *Mathematical Modeling of Wear Rate of Non-Repairable Parts and Their Replacement Strategies: Cement Mill Liners as a Case Study.*
- *Setting an Implementation Plan for Implementing ISO 9002 Requirements in a Local Industrial Company.*
- *Developing an Integrated Total Quality Management and Business Process Reengineering Model.*
- *Balanced Scorecard in Jordanian Public Sector: Jordanian Institution for Standards and Metrology as a Case Study.*
- *The Effect of Total Quality Management Practices on Higher Education Performance: Faculty of Engineering and Technology at the University of Jordan as a Case Study.*
- *A comparative Study of King Abdullah II Award for Excellence with Other International Awards for Excellence.*
- *The relationship between the implementation of the Process Criterion of the King Abdullah II Award for Excellence in Government Performance and Transparency, and the Organization Performance: Greater Amman Municipality as a Case Study.*
- *Developing a Machine Health Index Based on Vibration Signal Analysis.*

PUBLICATIONS:

- *Nader Santarisi, Fatma Saeed, and Hana Albalushi, (2026), "Optimizing Warehouse Operations: Integrating Efficiency, Sustainability, and Worker Well-Being", 3rd GCC IEOM Tabuk Conference, 2-4 Feb 2026.*
- *Nader Santarisi, Asma Ali Ahmed, Ruqaiya Faisal Alkhalidi, Hind Khalid Alhajri, Hessa Khalifa Almansouri, and Ghalya Ghanim Alal, (2026), "A Data-Driven Decision Model for Automation in Industrial Systems", 3rd GCC IEOM Tabuk Conference, 2-4 Feb 2026.*
- *Mahmoud Abdallat, Abdallah Barjas Qaswal, Ahmed Quzli, Moustafa Hassan, Sondos Alkhatib, Yazan Khraim, Ghufra Alkhateeb, Omar Alsmadi, Zaid Abdulqader, Jehad Shitawi, Iyas Suleiman AbuHijleh, Ahmad Radad, Renad Alawamleh, Areen Altarawneh, Sanaa Kasho, Duaa Dahbour, Rasha Alatout, Rand Murshidi, Shahem Abdallat, **Nader Santarisi**, Victor Polshin, Akiva Leibowitz, and Aiman Suleiman, "Quantum Mechanical Aspects of the Therapeutic Effects of Spinal Cord Stimulation in Chronic Neuropathic Pain", Submitted to British Journal of Pain, August 2024, **Scopus Q1***
- *Izdiad Atallah, Mahmoud Barghash, Mazin Arafah, Nader Santarisi, (2024), "Optimal Agricultural Product Central Market Location in Jordan, Jordan Journal of Mechanical and Industrial Engineering. Volume 18, Number 4 (ISSN 1995-6665) **Scopus Q2**.*

- Santarisi, Nader, (2024), "Concurrent Engineering: Practice and Performance", 7th European International Conference on Industrial Engineering and Operations Management (IEOM), Augsburg, Germany, July 16-18, 2024.
- Aiman Suleiman, Dario von Wedel, Ricardo Munoz-Acuna, MD,1,2 Simone Redaelli, Abeer Santarisi, Eva-Lotte Seibold, Nikolai Ratajczak, Shinichiro Kato, **Nader Said**, Eswar Sundar, Valerie Goodspeed, and Maximilian S. Schaefer, (2024), "Assessing ChatGPT's Ability to Emulate Human Reviewers in Scientific Research: A Descriptive and Qualitative Approach", Computer Methods and Programs in Biomedicine Journal 254 (2024) 108313, ISSN 2666-9900, Available online 28 June 2024, <https://www.sciencedirect.com/science/article/abs/pii/S0169260724003067>, **Scopus Q1**.
- Santarisi, Nader, Rashid, Fatma, and Khamis, Fatma, (2023) "Optimizing Computed Tomography (CT) Systems for Enhanced Security Screening Applications in Transportation Hubs and High-Security Areas", The 2nd IEOM Australian International Conference on Industrial Engineering and Operations Management, Melbourne, Australia, November 14-16, 2023.
- Alhajhajah, Abdulrahman A, Santarisi, Nader, Suleiman, Aiman, Mourad , Hesham, and Alhaj Moustafa, Muhamad, "Machine learning in lymphoma diagnosis and prognosis: - A Review of articles" ", Submitted 2023.
- Session Chair at "The 5th International Multiconferences in Advances in Science and Engineering Technology (ASET)", Dubai, UAE, Feb. 20-23, 2023.
- Member of Technical Committee of "The 5th International Multiconferences in Advances in Science and Engineering Technology (ASET)", Dubai, UAE, Feb. 20-23, 2023.
- Al Saqoor, S., Beithou, N., Santarisi, N., and Abdellatif, N., "COVID-19 Spread and Economic Impact: Jordan Case Study", Submitted to the Engineering Management in Production and Services (ISSN: 2543-6597), 2022, **Scopus Q2**.
- Santarisi, Nader S., Barghash, Mahmoud, and Barghash, Ahmad, (2022), "A Multi-Stage Ensemble Neural Network for Accurate Differentiation Between False and Real Alarms in Quality Control Charts", International Journal of Intelligent Engineering and Systems, Vol.15, No.2, 150-162, DOI: 10.22266/ijies2022.0430.15, **Scopus Q2**
- AbuBaker, Ayman, Ghadi, Yazeed Yasin, and Santarisi, Nader (2022), "Intelligent computer aided diagnosis system to enhance mass lesions in digitized mammogram images", International Journal of Electrical and Computer Engineering (IJECE), Vol. 12, No. 3, pp. 2564-2570, ISSN: 2088-8708, DOI: 10.11591/ijece.v12i3.pp2564-2570, **Scopus Q2**.
- Santarisi, N. S., & Faouri, S. S. (2021). "Prediction of combined cycle power plant electrical output power using machine learning regression algorithms", Eastern-European Journal of Enterprise Technologies, 6(8 (114), 16–26. <https://doi.org/10.15587/1729-4061.2021.245663>, **Scopus Q2**.
- Almaslamani, F., Abuhussein, R., Saleet, H., AbuHilal, L., and Santarisi, N., (2020) "Using Big Data Analytics to Design an Intelligent Market Basket-Case Study at Sameh Mall", International Journal of Engineering Research and Technology. ISSN 0974-3154, Vol. 13, No. 11, 2020, pp. 3444-3455, **Scopus Q2**.
- Santarisi, N. and Tarazi A., "The Effect of TQM Practices on Higher Education Performance: The Faculty of Engineering and Technology at the University of Jordan as a Case Study, " DIRASAT (Engineering Sciences), Vol. 35, No. 2, 2008, pp. 84-96.
- Santarisi, N., and Bargash, M. "A Neuro-Fuzzy based model for pattern recognition in control charts", The 37th International Conference on Computers and Industrial Engineering, October 2007.
- Bargash, M., and Santarisi, N., "Literature Survey on Pattern Recognition in Control Charts Using Artificial Intelligence", The 37th International Conference on Computers and Industrial Engineering, October 2007.
- Santarisi, N. and Abu-Khadra, M., "Supply Chain in Higher Education", Engineering Journal of the University Of Qatar. Vol. 19, 2006, pp. 107-116.
- Bargash, M. and Santarisi, N. "A Study on the Response and Stability of Artificial Neural Networks for Pattern Recognition in Control Charts", The 12th International Conference on

Machine Design and Production (UMTIK 2006), Kusadasi, Turkey, September 5-8, 2006, pp. 239-252.

- Santarisi, N., and Al- Momany, R., "Mathematical Modeling of Wear Rate of Non-Repairable Parts and Their Replacement Strategies: Cement Mill Liners as a Case Study", Journal of Quality in Maintenance Engineering, Vol. 11, No. 1, 2005, pp. 68-81.
- Bargash, M., and Santarisi, N., "Pattern recognition of Control Charts Using Artificial Neural Networks-Analyzing the Effect of the Training Parameters". Journal of Intelligent Manufacturing, Vol. 15, 2004, pp. 635-644.
- Santarisi, N., and Bargash, M. "A comparative study between the performance of a neuro-fuzzy based model for pattern recognition in control charts and control chart heuristics", The 11th International Conference on Machine Design and Production (UMTIK 2004), Antalya, Turkey, October 13-15, 2004.
- Santarisi, N., and Salhie, S., "An Experimental Method for Solving the Course Scheduling: The Department of Industrial Engineering at the University of Jordan as a Case Study". Journal of King Abdul Aziz University (Engineering Sciences), Vol. 16, No. 1, 2005, pp. 31 - 44.
- Saleh, A., and Santarisi, N. "Implementation of a Balanced Scorecard Methodology for Performance Measurement and Management at Al-Sayegh group" The Fifth Jordanian International Conference for Mechanical Engineering, Amman, Jordan, April 26-28, 2004.
- Santarisi, N.S., and Al-Sukkar, R. H., "The Effect Of The Organizational Structure And Culture On The Adoption Of JIT System", DIRASAT (Engineering Sciences), Vol. 31, No. 2, 2004
- Al-Muhaisen M.S., and Santarisi, N.S., "Auditing of the maintenance System of Fuhais plant/Jordan Cement Factories Co. ", Journal of Quality in Maintenance Engineering, Volume 8, No. 1, 2002, pp. 62-76.
- Zabalawi, I, Majdoubeh, A., and Santarisi, N., "TQM in Higher Education", Arab Regional Conference On Higher Education, Beirut, March 2-5, 1998.
- Santarisi, Nader S., "Implementing ISO 9000: The Experience of Jordanian Industries", The Fifth International Conference on Production Engineering and Design for Development, Cairo, April 28-30, 1998, pp. 551-558.
- Santarisi, N.S., and Al-Dabbas, S.B., "Implementing Total Quality Management in the Spare Parts Warehouse at Jordan Cement Factories", The Second Jordanian International Conference for Mechanical Engineering, Amman, Jordan, June 1-5, 1997, pp. 1161-1171.
- Santarisi, Nader, "A Plan for Implementing Total quality Management", Proceedings of the Mansoura Engineering First Conference, Mansoura, Egypt, March 28-30, 1995, pp. 258-266.
- Santarisi, Nader and Al-Mharmah, Hisham, "Quantitative Measures to Detect Pattern Formation in $\bar{X}$ Charts", "DIRASAT (Engineering Sciences), Vol. 26, No.1, 1999, pp.96 -103.
- Santarisi, Nader, 1990, Assessment of Total Quality Control in an Industrial Firm, University of Jordan, Amman, Jordan, Master's Thesis.
- Santarisi, Nader, 1993, Mathematical Modeling and Analysis of Just-In-Time Manufacturing Kanban System, University of Iowa, Iowa City, Iowa, USA, Ph.D. Thesis.

2. Experience as an EXPERT at Roads & Transport Authority (RTA), Dubai, UAE (July 2009 – July 2020):

Expert, CEO Office, **Licensing Agency**, RTA, Jan 2020–July 2020.

Expert, CEO Office, **Strategy & Corporate Governance Sector**, RTA, Sep 2019–Jan 2020.

Expert, CEO Office, **Corporate Technology Support Services Sector**, RTA, Jan 2016– Sep 2019.

Expert, CEO Office, **Corporate Technical Support Services Sector**, RTA, July 2009 – Jan 2016.

(Kindly see details-next)

Main Responsibilities and Duties include: (Details to be provided upon request)

- Play the role of **CEO Advisor and Consultant**.
- Lead the annual process of reviewing Sector **Strategic Plan**.
- **Building and managing relationships with key Partners/Vendors as well as research and consulting companies/universities (MoU)**.
- Supervise/Support Sector **Projects (Annual Operational/Execution Plans)**.

- *Main Financial Coordinator and Advisor of Sector Annual Budget.*
- *Main HR Coordinator and Advisor.*
- *Follow-up Sector KPIs (strategic, main, core, operational, etc.- Balanced Scorecards)*
- *Support the Sector & Departments' Development.*
- *Advice on trends in best managerial practices/technologies.*
- *Leading the Sector "Organization Structure Development" Team (2019).*
- *Participate/supervise and advise in developing and implementing of:*
 - *Projects' Value Management.*
 - *Organizational Agility.*
 - *RTA and Sector R&D and Innovation Team.*
 - *Digital Transformation Innovation lab.*
 - *RTA and Sector/Agency DGEP-Excellence Support Teams.*
 - *RTA Robotics Team.*
- *Conduct Training/Workshops in areas of (Strategic Planning, Project Management, Financial Analysis, Future Shaping, Value Engineering, Knowledge Management, Report Writing, Materials Management, Smart Cities, Forecasting, Total Quality Management, and Excellence Awards-DGEP).*

3. EXCELLENCE AWARDS Experience:

Head of the Team of Examiners of King Abdullah II Award for Excellence-Distinguished Government's University, (2021), JORDAN, September – December 2021.

Head of the Board of Examiners of King Abdullah II Award for Excellence (2006), JORDAN, June 2006 – October 2006.

Member of the Board of Assessors of Dubai Government Excellence Program (DGEP), Dubai, UAE, Feb. 2008- March 2008.

Member of the Board of Examiners of King Abdullah II Award for Excellence in Government Performance and Transparency (Cycles: 2005, 2007), JORDAN.

Senior Examiner of King Abdullah II Award for Excellence (Cycles: 2000, 2002, 2004).

Senior Consultant to revise and update King Abdulaziz Quality Award criteria, Saudi Arabia, September 2008 – March 2009.

Conduct Training to Qualify selected employees from Different Dubai Government Authorities as "Internal DGEP Assessors", Dubai Government Excellence Program, Executive Council, Dubai, UAE, 2011.

Member of the Advisory Board of the Certified Quality Management Program, the Arab Knowledge Management Society, July 2007 – July 2009.

Member of The Quality Experts to develop a "Model and Criteria for Quality Management System for the Jordanian Higher Education Institutions", Ministry of Higher Education and Scientific Research, May 2005 – Jan 2007.

4. UAE Industrial Projects: Capstone Design Projects

2022	<i>Utilizing IoT in investigating product integrity</i>	<i>Dubai Custom</i>	<i>CDP</i>
2023	<i>Optimizing Bus Transportation Performance in Emirates Transport</i>	<i>Emirates Transport</i>	<i>CDP</i>
	<i>Optimizing Computed Tomography (CT) Systems for Enhanced Security Screening Applications in Transportation Hubs and High-Security Areas</i>	<i>Dubai Customs/ Dubai Airports</i>	<i>CDP</i>
	<i>Improving Performance of Human Resources</i>	<i>Ayan-Alhaya company</i>	<i>CDP</i>

2024	<i>Warehouse Operations Management at Expeditors International Logistics</i>	<i>Majed Al Futtaim Warehouses</i>	<i>CDP</i>
	<i>Improving Fire Emergency Response and Upgrading Factory Fire Alarm Systems with Civil Defense</i>	<i>Dubai Civil Defense</i>	<i>CDP</i>
2025	<i>Market Entry Strategy for a Sushi Production Facility in the UAE.</i>		<i>CDP</i>
	<i>Automation Decision at UAE Industries.</i>		<i>CDP</i>

5. Experience as a SENIOR CONSULTANT: (Details to be provided upon request)

Developed Systems	Customer/Beneficiary	Date
<i>Centre of Excellence</i>	<i>Jordan Pharmaceutical Industries (Funded by EJADA).</i>	<i>2005-2006</i>
<i>Quality Management System</i>	<i>University of Malaga, Spain.</i> <i>Ministry of Higher Education and Scientific Research, Jordan.</i> <i>University of Jordan.</i> <i>University of Amran, Yemen.</i> <i>The Arab Knowledge Management Society.</i>	<i>2005-2009</i>
<i>UJ Strategic Plan (2007-2012)</i>	<i>University of Jordan.</i>	<i>2006-2007</i>
<i>Excellence Models</i>	<i>Dubai Government Excellence Program.</i> <i>Dubai Government.</i> <i>Greatest Amman Municipality.</i> <i>Ministry of Planning, Jordan.</i> <i>King Abdulaziz Quality Award, Saudi Arabia.</i> <i>Jordan Engineering Association.</i> <i>Jordan Light Vehicle Manufacturing, King Abdullah II Design and Development Bureau (KADDB) - Category Winner, Rank 1.</i> <i>Jordan Petrol Refinery Co.</i> <i>Jordan Phosphate Company.</i> <i>Arab Aluminum Company (ARAL), Jordan.</i> <i>Islamic Hospital, Jordan.</i> <i>Spatiality Hospital, Jordan.</i>	<i>2000-2009</i>
<i>Maintenance Management System</i>	<i>Jordan Cement Co.</i> <i>Petra Food Industries Co. (Funded by NAFES).</i>	<i>2005</i>
<i>Supply-Chain</i>	<i>Al-Sukhtian Group, Jordan (Funded by JUSBP).</i>	<i>2003-2004</i>

Management System	<i>Jordan Wood Industries Co. (JWICO), Jordan (Funded by JUSBP).</i>	
Production Planning & Control System	<i>ELECTRO Industries, Jeddah, Saudi Arabia.</i> <i>Al-Sukhtian Group, Jordan (Funded by NAFES).</i> <i>Al-Sayegh Group: (National Paints, Canning Factory), Jordan.</i> <i>National Cable & Wire Manufacturing (Funded by the Industrial Development Bank).</i> <i>Jordan Pipes Manufacturing Co. (Funded by Amman Chamber of Industry)</i>	2003-2006

6. Experience as an ENGINEER:

Mechanical Design and Project Engineer, Jordan Electricity Authority, Amman, JORDAN, December 1987-October 1988.

Mechanical Maintenance Engineer, the Arab Aluminum Company (ARAL), Amman, JORDAN, July 1986-December 1987.

HONORS:

- *Member of the ad hoc Royal Commission for Modernization and Development for Developing a Law for Industry in Jordan, October 1995-March 1996.*
- *Head of the Board of Examiners of King Abdullah II Award for Excellence (2006).*
- *Ranked the First of the 1984 Mechanical Engineering Graduates with Honor Degree.*
- *Awarded the University of Jordan Education Scholarship, 1988-1990.*
- *Awarded the USAID Education Scholarship, USA, 1991-1993.*
- *Awarded the DAAD Scholarship, Visiting Professor, University of Bremen, Germany, 1999.*

MEMBERSHIPS:

- *American Society of Quality (ASQ).*
- *American Productivity & Quality Center (APQC).*
- *Jordan Engineering Association (JEA)*
- *Industrial Engineering and Operations Management Society International.*

SKILLS:

- *Excellent Computer Skills.*
- *Languages: Excellent English and Arabic (native language).*