**Dr. Ramiz Assaf**

Industrial Engineering Department

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Palestine

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Born: 21/6/1983 Nablus, Palestine

Nationality: Palestinian with Jordanian Passport

Marital status: Married, two kids

LinkedIn URL: <https://www.linkedin.com/in/ramizassaf/>

## **Education**

2012 PhD in Mechanical Engineering,

 Polytechnic University of Milan (Politecnico di Milano), Italy

Thesis title: Analysis of Output Variability in Multi-Stage Manufacturing Systems.

2008 MSc in Engineering Management,

 Polytechnic University of Milan, Italy

2005 BSc in Industrial Engineering,

 An-Najah National University, Palestine.

## **Position**

Since 1/9/22 Visiting Assistant Professor, Industrial Engineering Department

 An-Najah National University

 Palestine

1/16/22 -1/6/22 Consultant at the Rectorship of Quality and Development,

 Reporting to the vice rector for Quality and Development,

 University of Business and Technology UBT

12/20-12/21 Data Science / Business Analytics Session Lead and Professional Trainer- <http://www.Udacity.com>.

01/16-6/22 Assistant Professor, Industrial Engineering Department/Masters of Engineering Management Program, College of Engineering (CE),

 University of Business and Technology, Jeddah, Saudi Arabia.

10/20-7/21 College Quality Coordinator, College of Engineering, Managed the process and obtained the Saudi Academic accreditation of 4 programs (Industrial, Civil, Software and Electrical Engineering).

2012-15 Assistant Professor, Industrial Engineering Department, An-Najah National University.

-Teach courses at the program of Industrial Engineering, and the Master’s program of Engineering Management

## **Professional Training**

* **Business Analysis Nanodegree** (Professional Degree) covering topics related to Advanced Excel, Tableau, SQL, reporting interpreting data and data cleaning. ( 4 month program, Sep – Dec 2020)
* Connect -**Data Analyst Nano Degree** – Udacity – 2018-2019 (10 month program)

Explore Weather Trends (using Excel and Google Sheets), Python Project, Investigate a Dataset (SQL, Python 3), Analyse A/B Test Results (Python 3), Explore and Summarize Data, Test a Perceptual Phenomenon (R), Wrangle and Analyse Data (Python) and Create a Tableau Story (Tableau)

* Supervised multiple projects in the Area of **Simulation Industrial and Service Systems** in different applications including: Production facilities, hospitals, banks and warehouses.
* **Applied Machine Learning in Python** -Coursera.com, Oct 2019, covered: Decision Trees, Python for Machine learning, Sklearn library, Ridge and Lasso Regression.
* Quality Practitioner Training (Certified)- Saudi National Commission for Academic Accreditation Authority (NCAAA) March 2021.
* Program Quality Evaluator Training (Certified) - Saudi National Commission for Academic Accreditation Authority (NCAAA) April 2021.

## **Teaching Experience**

At University of Business and Technology (2016 – now)

 **Industrial Engineering Department**

*Industrial Systems Simulation*

Engineering Economics

System Analysis and Design

Production Planning and Control

Computer Application for Industrial Engineering Applications I (Excel) & II (Matlab)

Probability and Engineering Statistics

Fundamentals of Computer Systems

Engineering Cost Estimation

Queuing Theory

Facilities Planning

Managerial Accounting

Reliability Engineering

Senior Projects

Special Topics (Quality Management)

**Masters of Engineering Management MEM Program**

Engineering Economy

Managerial Cost Accounting

Advanced Engineering Economy

Concepts and Principles of Engineering Management (Organizational Behavior and Change Management)

Systems Engineering

Operations Research

Reliability Engineering

Safety Engineering

Production / Operations Management

Case Study (supervised a total of 10 students, two works were presented in a conference )

**Masters of Supply Chain Management Program (started 2020)**

Project Management

Production / Operations Management

At An-Najah National University (2012-2015)

**Masters of Engineering Management MEM Program**

Advanced Engineering Economics and Finance

Engineering Economics (Prerequisite)

**Industrial Engineering Department**

Operations Research II

Engineering Economics and Feasibility Studies

Introduction to Industrial Engineering

Computer Integrated Manufacturing and Production Systems

Maintenance Management and Reliability

Quantitative Methods I & II

Computational Applications Lab

Safety Engineering and Ergonomics

At Politecnico di Milano (2010-2011)

Assisted teaching the graduate course of Reconfigurable Manufacturing Systems for Engineering Management students. In years 2010 and 2011.

## **Relevant Publications**

* A Juaidi, F Anayah, Ramiz Assaf, AA Hasan, S Monna, L Herzallah et al, (2022) An overview of renewable energy strategies and policies in Palestine: Strengths and challenges. Energy for Sustainable Development 68, 258-272
* Kanan, Mohammad, Bechir Wannassi, Ahmad S. Barham, Mohamed Ben Hassen, and Ramiz Assaf. "The Quality of Blended Cotton and Denim Waste Fibres: The Effect of Blend Ratio and Waste Category." Fibers 10, no. 9 (2022): 76.
* M Kanan, MS Habib, A Shahbaz, A Hussain, T Habib, H Raza, Z Abusaq, Ramiz Assaf,(2022)A Grey-Fuzzy Programming Approach towards Socio-Economic Optimization of Second-Generation Biodiesel Supply Chains, Sustainability 14 (16), 10169.
* Ramid Assaf (2021). Comparison between Islamic and Gregorian Calendars and Their Effect on the Forecast of Demand. i-manager's Journal on Management, 15(4), 19-23. https://doi.org/10.26634/jmgt.15.4.17946
* Ramiz Assaf and Mohammad Kanan (2020), The Role of Quality in Bit Stream Access Internet Service Providers on Customer Loyalty, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9(6), 1515-1524.
* M.A. Kanan, A.S. Al-Gahtani, M. Alqarni, Ramiz Assaf, (2020), Voltage Profile Power Quality Effects In Radial Distribution Feeder Medium Voltage 33kilovolt And Remedial Measure, International Journal of Scientific and Technology Research,9(2) 4587-4591.
* Ramiz Assaf (2019), The Impact of Wastewater Treatment Plants Transmitted Diseases on its Workforce, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 8(12), 2852-2856.
* Ramiz Assaf, Tamer Haddad, and Mohammed Kanan (2019) Improving the Quality of High Density Polyethylene Pipes using Design of Experiments, International Journal of Engineering & Technology, 8 (2), 120-127.
* Ramiz Assaf (2019) Adoption of Cloud Computing in Palestinian Ministry of Telecommunication and Information Technology: A Framework Development”, Journal on Cloud Computing, 6(1), 19-26.
* Yahya Saleh and Ramiz Assaf (2018) The Level of Visual and Musculoskeletal Disorders among Office Workers in Palestine. Transactions on Ergonomics and Safety 2 (1), 17-34
* Ramiz Assaf and Yahya Saleh (2017) Solid Waste Collection and Optimization using Vehicle Routing Problem: Nablus City Case Study. Civil Engineering and Environmental Report (CEER) 26,3 43-57.
* Ramiz Assaf and Tamer Haddad (2017) An Application of Single Minute Exchange of Die Approach in an Aluminium Profiles Extrusion Production System: Case Study, International Journal of Scientific Research and Innovative Technology, Vol 4 No 7, ISSN: 2313-3759.
* Ramiz Assaf (2017), Success and Failure Reasons of Family Companies in Palestine: Preliminary Results, International Journal of Scientific Research and Innovative Technology, Vol 4 No 7, ISSN: 2313-3759.
* A. Zabadi, Ramiz Assaf and M. Kanan 2017," Mathematical modeling using pure fractions and Monte Carlo simulation to Control Thalassemia Disease Transition.", International journal of advanced biotechnology and research, Vol-8, Issue-Number2, pp984-991.
* A. Zabadi and Ramiz Assaf 2017,"From Chemistry to Linear Algebra: Balancing a chemical reaction equation using algebraic approach", International journal of advanced biotechnology and research, Vol-8, Special Issue-Number1, 2017, pp24-33.
* Ramiz Assaf, Marcello Colledani, and Andrea Matta. 2014. “Analytical evaluation of the output variability in production systems with general Markovian structure”. OR Spectrum. 36, 3 (Jul 2014), 799-835.
* Ramiz Assaf, Tamer Haddad, Yahya Saleh and Mohammad Othman. “An Assessment of Maintenance Management Practices in Palestinian Industries -A Pilot Study”. The 5th International Conference of Industrial Engineering and Operations Management (IEOM). 3-5 March 2015, Dubai, UAE.
* Ramiz Assaf and Tamer Haddad, “Performance Improvement Using the Single Minute Exchange of Die (SMED) Methodology in an Aluminum Profiles Extrusion Production System”. Proceedings of the 1st International Conference on Industrial, Systems and Manufacturing Engineering, Amman, Jordan, Vol: 1st, (2014) DOI: 10.13140/2.1.3490.7842
* Ramiz Assaf, “Job Shop Lean Production Implementation Using Program Evaluation and Review Technique (PERT).” 4th International Conference on Industrial Engineering and Operations Management (IEOM) - Bali, Indonesia 2014.
* Ramiz Assaf and Yahya Saleh (2013), “Optimization of Water Supply Network for Nablus Municipality”. Palestine Polytechnic University Third International Conference on Energy and Environmental Protection in Sustainable Development (ICEEP III), Oct 9-10, 2013, Hebron, Palestine.
* Ramiz Assaf, Marcello Colledani (2012), “A Decomposition Approach for the Approximate Evaluation of the Output Variability in Multi-Stage Production Lines”, In: Information Control Problems in Manufacturing, Volume 14 Part 1, (Proceedings of the 14th IFAC Symposium on Information Control Problems in Manufacturing), Bucharest, Romania.
* Ramiz Assaf, M. Colledani and A. Matta (2009), “Analysis of The Output Variance In Production Lines: Methodology and Applications”, In: Macchi, and Pinto,(eds.), Proceedings of the 11th International Conference on the Modern Information Technology in the Innovation Processes of the Industrial Enterprises, ISBN: 978-88-89555-09-05, vol.1, pp. 143-150. Oct 15-16, 2009, Bergamo, Italy.

## **Grants, honors & awards**

2009 Winner of a Full scholarship to pursue the doctorate in Production systems engineering from the Italian ministry of higher education at Politecnico di Milano.

2006 Winner of a Full scholarship to pursue the master’s degree in Engineering Management provided from the Como-Lecco Chamber of Commerce, Politecnico di Milano.

2005 Ranked 1st (Highest GPA) among the cohort of 2001 of industrial engineering BSc students (total of 35 students)

## **Conference Activity/Participation**

•Attended and presented papers in over 8 conferences, during 20011 - 2022:

* Presented Two Presentations (with my students) at the 1st Industrial Engineering Conference at King Abdulaziz University, January 2019
* Presented a talk at the 4th conference on new trends in education at An-Najah National University. The art of the possible. Talk title: “E-Assessment of Engineering Courses: A Case Study for the Course of Engineering Economics”.
* Guest Speaker at the Middle East Student Branch Congress (MESBC) 2015, title of the talk: Building Integrated Automated Production Systems. August 2015, Amman, Jordan.
* attended and presented a paper in the 1st International Conference on Industrial, Systems and Manufacturing Engineering, November 2014, Amman, Jordan.
* Attended and presented a paper at the Third International Conference on Energy and Environmental Protection in Sustainable Development (ICEEP III), October 9-10, 2013, Hebron, Palestine.
* Attended the Second Conference on Family Businesses in Palestine: Challenges and the Future. November 2012, Nablus, Palestine.
* Attended the Eighth Conference on Stochastic Models for Manufacturing and Service Operations (SMMSO) 2011, Kusadasi Turkey.
* Attended the Seventh Conference on Stochastic Models for Manufacturing and Service Operations (SMMSO) 2009, Ostuni, Turkey.

## **Service to the Profession**

-Participated as a tutor for the 2018 cycle of 1 Million Arab coders - Data Analysis Track, helped students in Descriptive statistics and Basic probabilities.

-Reviewer in the following journals and conferences:

• Journal of Manufacturing Systems - Reviewed 6 journal articles (2011 – 2020)

• Advances in Engineering Software - Reviewed one article

• IEEE Transactions on Systems, Man and Cybernetics: Systems- Reviewed one article.

* Arabian Journal of Science and Technology – King Fahad University of Petroleum and Minerals (reviewed 3 journals)

• An-Najah National University Journal for Natural Sciences - reviewed one article.

• 4th International Conference on Industrial Engineering and Operations Management (IEOM) 2014 - reviewed one article.

## **Departmental/University Service**

Active member in the following committees:

University of Business and Technology

* Student transfer and equivalency committee: Part of the committee that evaluates the students transferred to the industrial engineering department at UBT. The committee is responsible about evaluating students’ transcripts for courses they completed in other universities and if they match courses given in UBT’s industrial engineering program.
* Coordinator of the IE program scheduling committee: I was an active member of the team responsible of building class schedules for the coming semesters. Then became the coordinator of that committee (in 2017).
* Active Member of Master of Engineering Management preparation team. Participated activities related to initiating this program at UBT, scheduling classes and final exams.
* Active Member of the Final Exam Scheduling Committee: Participated in organizing and managing the schedule of final exams of the IE department and helped assigning invigilators and solving conflicts.
* Coordinator of the Quality Committee: The committee is responsible for preparing the IE program for the National Saudi Accreditation (NCAAA). The process started in 2019 and should continue for 1 year.
* Member of the IE labs development committee: The committee was responsible for the development of and Engineering Ergonomics Lab in 2017. Our task was to select the equipment, review offers and provide recommendations.

An-Najah National University

* Institutional development committee (2014-2015): The committee is under the direct leadership of the vice president of administrative affairs. The Goal of the committee is to identify and prioritize projects that will assist the university improving administrative aspects for the coming five years.
* Quality assurance committee (2013-2015): Since the program is ABET accredited. At the end of each semester, some courses are selected and checked to conformance with the planned learning outcomes. The committee is responsible for recommending actions to improve the teaching of these courses for the coming semesters.
* Manufacturing lab development and improvement committee (2012-2015): Manufacturing process is a domain with endless innovation, the goal of this committee it to select, upgrade and replace the machines and experiments of the lab to match the needs of the market/curriculum.
* Active member during the ABET accreditation phase. Helped through number of meetings and committees to satisfy the requirements of ABET.

## **Master Thesis Supervision and Defense Committee**

Currently, I supervised the following three engineering management master students during my time at An-Najah National University:

* Mr. Wael Abu Rizeq , The effect of Social Network Analysis in the Telecommunication Industry: The case study of Jawwal. (Defense data: Feb/2017)
* Mr. Mahmoud Younis, Development of a Cloud Computing Adoption Framework in the Ministry of Information Technology in Palestine. (Defense data: 26/1/2017)
* Mr. Ashraf Dmaidi, The effects of quality on the selection of Internet service providers in Palestine. (Defense data: 5/5/2017)

Participated in the defense committee of the following students:

* Mr. Muthaffar Mansour, [Developing Risk Management Model for the Palestinian Insurance Sector](https://scholar.najah.edu/content/developing-risk-management-model-palestinian-insurance-sector), December 2015.
* Mr. Mohammad Hassan, [Evaluating the Benefits of Using Sales Force Automation Technology in the Palestinian Commercial Firms](https://scholar.najah.edu/content/evaluating-benefits-using-sales-force-automation-technology-palestinian-commercial-firms), December 2012.

## **Computer/Programming Skills**

Full knowledge of:

MS Office (Word, Excel, Power point, Visio and Project), Minitab and SPSS and R

Matlab, Octave, Python, Tableau and Power BI, Rockwell Arena 16, SQL

Operations Research Languages: Lingo, IBM ILOG

## **Professional Memberships/Affiliations**

- Jordan’s Engineers Association: Jerusalem Center, Palestine. June 2006-present

- Member and faculty Advisor for the Institute of Industrial Engineering (IIE) An-Najah

National University Chapter 703. 2013-2015

## **Languages**

- Arabic (Mother Tongue)

- English (Professional level, TOEFL 104 /120, 2008)

- Italian (Advanced level C1 - European scale)

## **References**

Dr. Mohammad Kanan, Head of the Industrial Engineering program at University of Business and Technology, m.kanan@ubt.edu.sa,

Dr. Ahmad Ramahi, Industrial Engineering Department, An-Najah National University, Palestine, ramahi@najah.edu