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| Data Analyst/Business Analyst  SALEEM RAMADAN. | 314-555-55555  LinkedIn: linkedin.com/in/\_\_\_\_  GitHub: github.com/\_\_\_\_  St. Louis, MO |

# Skills

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| SQL(SQL server, MySQL, PostgreSQL) | Microsoft Power BI |
| Python (Pandas, Numpy, SciPy, Matplotlib, Tensorflow, SKlearn) | Minitab (Test of hypothesis, ANOVA, DOE) |
| Tableau | Excvel (Vlookup, Conditional Formating, Pivot Tables) |

# Recent Data Analytics Projects

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| **Hydroponic Farm Optimization**-Personal Project- Amman Jordan | Feb, 2025 |

* Developed a linear programming model to optimize resource allocation (nutrients, water, light) for a hydroponic farm,
* Tools: Python (PuLP), Excel, Power BI.
* Impact: Improved production efficiency and informed scalability plans. Maximizing crop yield by 43% and reducing resource waste by 29%.

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| **Blended Teaching Survey Analysis** -HTU- Amman Jordan | April, 2025 |

* Analyzed blended learning survey data from 500+ students to evaluate teaching effectiveness and engagement.
* Tools: Microsoft Forms, Minitab, Power BI.
* Impact: Increased course satisfaction rates with data-informed recommendations.

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| **Bank Loan Portfolio Dashboard** -JIB- Amman Jordan | March, 2024 |

* Built an interactive dashboard to visualize the bank’s loan portfolio, integrating SQL-based data.
* Tools: SQL, Excel.
* Impact: Enabled real-time monitoring and improved risk management.

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| **Institutional Review Board (IRB) Review Times** -AlSalt Hospital- Al Salt, Jordan | June, 2023 |

* Implemented statistical process control and root cause analysis to identify bottlenecks in the IRB review process using Control charts, process mapping, cause-and-effect analysis.
* Tools: Microsoft Forms, Minitab.
* Impact: Reduced review times by 39% enabling faster research approvals.

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| **Streamlined Pediatric Radiology Scheduling** -AlSalt Hospital- Al Salt, Jordan | August, 2023 |

* Unified five separate scheduling systems into one consolidated platform for pediatric radiology using Scheduling optimization, workflow analysis, stakeholder collaboration.
* Tools: Python (PuLP), Arena, Excel, Minitab
* Impact: Improved appointment processing speed by 11%, shortened patient wait times by 9%, and significantly reduced incoming caregiver phone inquiries by 22%.

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| **Optimized Radiology Department Workflows** -AlBashir Hospital- Al Amman, Jordan | Oct, 2023 |

* Action: Applied value stream mapping and facility layout redesign across CT, MRI, Nuclear Medicine, Ultrasound, and Vascular Interventional units using : Lean healthcare principles, value stream mapping, process redesign.
* Tools: Microsoft Forms, Minitab.
* Impact: Enhanced patient flow, minimized bottlenecks, and increased service efficiency across multiple modalities.

# Work Experience

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| **Al Hussein Technical University – Acting Chair & Associate Professor, Industrial Engineering,** Amman, Jordan | Jan 2023 – Present |

* Lead Industrial Engineering department, integrating analytics and machine learning into curriculum.
* Applied data-driven decision-making in accreditation and program development.
* Mentored research projects on predictive modeling and optimization.

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| **Youngstown State University – Associate Professor, Industrial & Systems Engineering**, Youngstown, OH | Aug 2021 – Dec 2022 |

* Taught courses in data analysis, statistics, and operations research.
* Conducted research on predictive models for surgical scheduling.
* Supervised student projects applying machine learning to industrial problems.

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| **German Jordanian University – Associate Professor, Industrial Engineering**, Amman, Jordan | Sep 2017 – Aug 2021 |

* Applied machine learning and optimization to manufacturing and healthcare.
* Developed MSc Engineering Management program focusing on data-driven decision making.
* Supervised graduate theses on predictive analytics and supply chain optimization.

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| **Applied Science Private University – Assistant Professor, Industrial Engineering**, Amman, Jordan | Sep 2011 – Aug 2017 |

* Taught courses in quality engineering, statistics, and operations management.
* Conducted research on predictive analytics and optimization.
* Received Outstanding Research Award (2015).

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| **Healthcare Operations & Performance Excellence (HOPE) – Data Analyst / Consultant,** Ypsilanti, MI | May 2009 – Aug 2013 |

* Analyzed hospital performance data and identified inefficiencies.
* Implemented statistical process control and Six Sigma methods.
* Optimized scheduling and workflows across hospital units.

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| **Tasty Sub & Beef – Supply Chain Manager,**  Chicago, IL | Dec 2009 - April 2009 |

* Managed supply chain operations for multi-unit restaurant business.
* Improved inventory management with Excel-based tracking.
* Achieved 97% on-time delivery and reduced costs with JIT strategies.

# Certifications

* Certified Analytics Professional (CAP) – INFORMS
* Power BI Data Analyst Associate (PL-300) - Microsoft
* Certified Supply Chain Professional (CSCP) – APICS
* Project Management Professional (PMP) – PMI

# Education

* Ph.D. in Systems Engineering – Ohio University, 2011
* M.S. in Management Information Systems – Keller Graduate School of Management (DeVry University), 2004
* B.S. in Computer Information Systems – DeVry University, 2002
* B.S. in Industrial Engineering – University of Jordan, 1998

# Recent Publications

Authored 30+ peer-reviewed publications on machine learning, optimization, and operations management. Recent publications:

* Ramadan, S.Z. et al. (2025). Optimizing 3D Printing Parameters for Lightweight UAV Components. Materials Science in Additive Manufacturing.
* Ramadan, S.Z. et al. (2025). A Data‑Driven Approach for Predicting Remaining Intra‑Surgical Time and Enhancing Operating Room Efficiency. JIEM, 18, 145-166.
* Ramadan, S.Z. et al. (2024). Optimizing tensile strength and energy consumption for FDM through Mixed‑Integer Nonlinear Multi‑Objective Optimization and Design of Experiments. Heliyon, 10(9).
* Ramadan, S.Z. et al. (2023). An Accurate and Robust Genetic Algorithm to Minimize the Total Tardiness in Parallel Machine Scheduling Problems. Management & Production Eng. Review, 14(4).