



Ahmad Salehiyan

Industrial Engineer

Contact:

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Top Skills:

- Python
- GAMS
- Power BI
- Excel

Research Interests:

- Optimization
- Maintenance
- Machine Learning
- Scheduling

Honors and Awards:

- Ranked **9th** among Systems Optimization M.Sc. students(2021)
- Ranked **4th** among Industrial Engineering B.Sc. students(2017)

Education

K. N. Toosi University of Technology

Master of Science in Industrial Engineering-Systems Optimization (2019-2022)

- Supervisor: Abdollah Aghaie
- Thesis: "Predictive Maintenance of Advanced Industrial Machines using Artificial Intelligence Techniques."
- Overall GPA: 3.42/4.00 (16.53/20) | Major courses GPA: 3.50/4.00
- Selected Courses:
Design of experiments (A⁺) Integer Variables (A⁺)

Azad University

Bachelor of Science in Industrial Engineering (2014-2018)

- Supervisor: Masoud Moshfeghnia
- Thesis: "Feasibility Study Industrial Company Manufacturing of Carbonless Paper."
- Overall GPA: 3.52/4.00 (17.06/20) | Major courses GPA: 3.65/4.00
- Selected Courses:
Computer Programming (A⁺) Operations Research I (A)
Engineering statistics (A) Operations Research II (A⁺)
Maintenance Planning (A⁺) Principles of Simulation (A⁺)

Publication

- **Salehiyan, A.**, Aghaei, A., Amouei, A. (2022). Discover Hidden Relationships and Patterns in Failure of Computer Numerical Control Equipment by Using Apriori Algorithm. The 3rd International Conference on Challenges and New Solutions in Industrial Engineering, Management and Accounting. [Accepted]
- Aghaei, A., **Salehiyan, A.** (2021). Prioritizing Equipment Maintenance Programs by Clustering Algorithms The 14th International Conference of Iranian Operations Research Society.
- **Salehiyan, A.**, Aghaei, A., Mohammadi, Z. (2022). Implementation of Predictive Maintenance by Using LSTM and GRU Artificial Neural Networks, and Mathematical Cost Model. [Submitted]
- **Salehiyan, A.**, Aghaei, A., Mohammadi, Z., "Development of Fault Diagnosis Models Based on Predicting Vibration Signals of a Computer Numerical Control Machine." [Under Publication]

Language Skills

- IELTS Overall: 6.5 (listening: 7 | reading: 6.5 | writing: 6 | speaking: 6) Oct.2022
- Persian—Native or bilingual proficiency

Teaching and Research Experience

- K. N. Toosi University of Technology Oct.2021 – Present
Teacher and Research Assistant (Dr. Abdollah Aghaie)
- Teaching Microsoft Excel Sep.2019 - Oct.2022
A private tutor of one of the employees in a private company

Work Experience

- Karin Crane Company Sep. 2019 - Oct.2019
Project Management, Creating Quality Control Inspection Forms and Operation
Process Charts
- Turbine Engineering and Manufacturing Company(TUGA) Oct. 2017-Sep. 2018
Data mining, Benchmarking, Creating Management Dashboards & Advanced Reports

Certificates and Skills

Certifications:	Programming languages:	Computer-aided engineering:
Minitab	Python	GAMS
COMFAR	R	PostgreSQL
Excel (Advance)	HTML	Power BI
LATEX	CSS	Tableau
Weka		
Microsoft Project		

Projects

- Turbine Engineering and Manufacturing Company(TUGA) Oct. 2021 – Oct. 2022
Advisor: Dr. Abdollah Aghaie
Project Title: "Early Fault Detection of Five-axis Numerical Control Tool Machine
Based on Data mining Approaches and Similar Tools."
- Absal Company Feb. 2020 -Jun 2020
Project Title: "Optimization of Paint Coating Process on Galvanized Sheet Using
Design and Analysis of Experiments."
- Carbonless Manufacture Company Feb. 2019 -Jun 2019
Project Title: "Feasibility Study Industrial Company Manufacturing of
Carbonless Paper. "

References

Dr. Abdollah Aghaie
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Technology, Iran.
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