Ahmad Salehiyan

Contact:

📍 Tehran, Iran.

📞 00989398006775

✉ A_Salehiyan@email.kntu.ac.ir

🌐 www.ASalehiyan.com

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 (18.85/20)	Integer Variables (18.75/20)

- **Islamic Azad University, Qazvin Branch**

  Bachelor of Science in Industrial Engineering (2014-2018)

  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	(19.25/20)	Operations Research I	(17.50/20)
Engineering statistics	(17/20)	Operations Research II	(19/20)
Maintenance Planning	(20/20)	Principles of Simulation	(20/20)

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 personal tutor of one of the employees in a private company

Work Experience

- **Karin Crane Company**   **Sep. 2019 - Oct.2019**

  Being Project Manager, and improving workflow creating Quality Control Inspection Forms, and Operation Process Charts

- **Turbine Engineering and Manufacturing Company** (**TUGA)**   **Oct. 2017-Sep. 2018**

  Analyzing maintenance dataset by implementing data mining techniques, and doing benchmarking to improve business processes by observing what other companies do.

Certificates and Skills

Certifications:	Programming languages:	Computer-aided engineering:
Weka	Python	GAMS
Minitab	R	PostgreSQL
COMFAR	JavaScript	Power BI
Excel (Advance)	jQuery	Tableau
LATEX	HTML	AutoCAD
ISO9001:2015	CSS	SOLIDWORKS
Microsoft Project		Statistical Package for the Social Sciences (SPSS)

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

Full Professor, Industrial Engineering Department, K. N. Toosi University of Technology, Iran.

Email: aaghaie@kntu.ac.ir|Phone: 00989121487957

Dr. Emad Roghanian

Associate Professor, Industrial Engineering Department, K. N. Toosi University of Technology, Iran.

Email: e_roghanian@kntu.ac.ir|Phone: 00989126994553

Dr. Yaser Samimi

Assistant Professor, Industrial Engineering Department, K. N. Toosi University of Technology, Iran.

Email: y_samimi@kntu.ac.ir|Phone: 00989128387291