Rasoul Ghanbari

DoB: 1991-11-18
Marital Status: Single
Military Service: Served

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📱 (+98)9144087358
📍 Tabriz , East Azerbaijan, Iran

🌐 Language

English

Reading	Intermediate
Writing	Pre Intermediate
Speaking	Intermediate
Listening	Upper Intermediate

Turkish

Reading	Proficient
Writing	Upper Intermediate
Speaking	Proficient
Listening	Proficient

Azerbaijani

Reading	Proficient
Writing	Proficient
Speaking	Proficient
Listening	Proficient

Persian

Reading	Proficient
Writing	Proficient
Speaking	Proficient
Listening	Proficient

Chinese

Reading	Elementary
Writing	Elementary
Speaking	Pre Intermediate
Listening	Intermediate

🎓 Education

Bachelor of Mechanical Engineering
Branch: Manufacturing
Institute/University: University of Tabriz
Tabriz , East Azerbaijan, Iran
2010 - 2014
GPA : A

Master of Mechatronic Engineering
Branch: Mechatronic
Institute/University: University of Tabriz
Tabriz , East Azerbaijan, Iran
2015 - 2018
GPA : A

PhD in Mechatronic Engineering
Branch: Mechatronic
Institute/University: University of Tabriz
Tabriz , East Azerbaijan, Iran
2024 - Present
GPA : A

💼 Work Experience

Technical department
Tabrizkar Machine Producer
Tabriz , East Azerbaijan, Iran
January 2020 - January 2022
Tasks and Achievements

- Quality control of parts
- Technical designer
- Managed technical support team to ensure timely resolution of customer issues.
- Implemented new software solutions to improve department efficiency and streamline processes.
- Collaborated with cross-functional teams to troubleshoot and resolve complex technical issues.
- Received Employee of the Month award for outstanding performance and dedication to the department.
- Successfully implemented a new ticketing system that reduced response time by 30%.

Teacher
Colleges
Tabriz , East Azerbaijan, Iran
January 2022 - Present
Tasks and Achievements

- Developed comprehensive lesson plans that effectively communicated complex grammar and vocabulary concepts to students of varying proficiency levels.
- Utilized various teaching methods, such as interactive activities, group projects, and multimedia resources, to engage students and promote active learning.
- Conducted regular assessments to evaluate students' progress and identify areas for improvement, resulting in measurable enhancements in their language skills.
- Collaborated with colleagues to create a cohesive curriculum that aligned with academic standards and catered to the diverse needs of students.
- Organized and led extracurricular activities, such as English language clubs and cultural exchanges, to enhance students' language proficiency and cultural awareness.

TA Associates

Azad university of Tabriz
Tabriz , East Azerbaijan, Iran
May 2021 - Present
Tasks and Achievements

- Conducted market research and financial analysis for potential investment opportunities
- Assisted in the due diligence process by gathering and analyzing company data
- Prepared presentations and investment memos for internal and external stakeholders
- Participated in company meetings and discussions to provide insights on potential investments
- Contributed to the team's successful completion of multiple investment transactions

Skills

Dassault Systemes SolidWorks ■■■■■	Dassault Systemes CATIA ■■■■■
Programmable logic controller PLC software ■■■□□	Non-destructive testing ■■■■□
Adobe Systems Adobe Photoshop ■■■□□	Vibration analysis software ■■■□□

Certificates

ASME student membership
Institute: ASME
January 2016

IEEE student membership
Institute: IEEE
February 2017

Solidwork Designer
Institute: Technical and professional organization
February 2016

Catia Designer
Institute: Technical and professional organization
June 2018

ICDL
Institute: Technical and professional organization
August 2015

Non-destructive testing
Institute: Technical and professional organization
March 2019

Review and Evaluate the Response of Multi Layer Artificial Neural Network and Support Vector Machine in the Fault Detection of a Flexible Coupling
Publisher: CIVILICA
February 2017
Link : https://civilica.com/doc/755290/

The couplings are one of the power transmission elements that cause torque transfer from motive shaft
to moving shaft and classify in two main classes according to their components. Acceleration signals of healthy
and faulty coupling components were acquired in the fist stage of this paper. The proposed method for training
the expert system includes: data acquisition, signal processing and training of intelligent pattern recognition
stage. In this paper training and testing patterns of the proposed SVM and ANN models are based on well
established experimental results taken from literature, then using SVM and ANN for fault detection. The
simulation results recorded in the time-domain and then transformed into the frequency-domain by using the Fast
Fourier Transform (FFT). The sensitivity of this parameters in healthy and faulty condition obtained by using
Distance Evaluation Criteria. Finally a comparison is made between prediction obtained from the SVM and
ANN method. The result of this considered as a variable input in ANN and SVM. The comparison confirms that
the SVM models developed in this paper outperform the ANN method.

Intelligent diagnosis of defects in the inner and outer ring of bearings using analysis Vibrations and multi-layer perceptron optimized artificial neural networks
Publisher: ISC
June 2016
Link : https://civilica.com/doc/700215/

In this article, the method of analyzing and processing vibration signals in the time and frequency domain is used to extract vibration characteristics, and for this purpose, a bearing model of ER-16K type manufactured by MB company in England, whose vibrations are first measured by an accelerometer Piezoelectric in the healthy working state and in the unhealthy state in the external and internal ring has been subjected to load and its vibrations have been recorded at Curtin University, Australia. After extracting 11 vibration features including: Clearance Factor, Crest Factor, Kurtosis, Standard Deviation, Peak, Average, Energy, RMS, Impulse Factor, Shape Factor, Normalizer Energy for healthy and unhealthy states as a matrix for classifying and detecting defects from Multi-layered perceptron artificial neural networks were used and applied as input to this artificial neural network. Considering the low percentage of correct detection of defects, an innovation has been made to optimize the output of the network and detect the type of defect in this research by modifying the activation function of the output layer to the sigmoid tangent function and using the back propagation algorithm and correctly choosing the number of hidden layers. It is the reason for reaching a percentage of over 98% for a more accurate prediction of the type of defective bearing.

Projects

Conceptual and preliminary design of Coupling testers
For: University of Tabriz
September 2018
Link : https://ganj.irandoc.ac.ir/#/search?
basicscope=1&keywords=%D8%B7%D8%B1%D8%A7%D8%AD%DB%8C
%20%D9%85%D9%81%D9%87%D9%88%D9%85%DB%8C%20%D9%88%
20%D8%A7%D9%88%D9%84%DB%8C%D9%87%20%DA%A9%D9%88%D
9%BE%D9%84%DB%8C%D9%86%DA%AF%20%D9%87%D8%A7%DB%8C
%20%D8%A7%D9%86%D8%B9%D8%B7%D8%A7%D9%81%20%D9%BE%
D8%B0%DB%8C%D8%B1