

PROSPECTIVE STUDENT · MECHANICAL ENGINEER

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"Develop a passion for learning. If you do, you will never cease to grow."

Education

Amirkabir University of Technology (Tehran Polytechnic)

Tehran, Iran

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Oct. 2020 - Sep. 2022

- · Working on Multi-Body Dynamics and Co-Simulation
- CGPA=3.65/4, Last 20 credits GPA=4/4

Imam Khomeini International University

Oazvin, Irar

BACHELOR'S DEGREE IN MECHANICAL ENGINEERING

Oct. 2016 - Sep. 2020

- worked on properties of smart materials as well as Auxetic meta-materials and also, investigation the effect of carbon nanotubes waviness on mechanical properties (Plates, shells, and beams)
- CGPA=3.63/4, Last 4 semesters GPA=3.96/4

National Organization for Development of Exceptional Talents (Sampad)

Karaj, Iran

HIGH SCHOOL DIPLOMA IN MATHEMATICS AND PHYSICS

Oct. 2009 - Sep. 2016

• GPA=4/4

Research Interest_

Data Mining

Machine Learning

Computer Science

Mathematical Modelling

•Numerical Methods

Linear Algebra

Teaching Experience

Dynamics of Multi body Systems

Tehran, Iran

AMIRKABIR UNIVERSITY OF TECHNOLOGY (TEHRAN POLYTECHNIC)

Jan. 2022 - Aug. 2022

• Instructor: Dr. Afshin Taghvaeipour

Mechanical Engineering Design II

Qazvin, Iran

IMAM KHOMEINI INTERNATIONAL UNIVERSITY

Jan. 2020 - Jul. 2020

• Instructor: Dr. Farzad Ebrahimi

Qazvin, Iran

Mechanical Engineering Design I

IMAM KHOMEINI INTERNATIONAL UNIVERSITY

Oct. 2019 - Jan. 2020

• Instructor: Dr. Farzad Ebrahimi

Internship & Working Experience

Iran Khodro (Iran Largest Automobile Manufacturer)

Tehran, Iran

MECHANICAL ENGINEER

Aug. 2019 - Sep. 2019

- Involved in repairing Kuka robots from Peugeot 206 production line and repairing Festo's pneumatic valve.
- Repairing automotive sealer system, "Hydrum gun" in destructive Tests, stud-welder gun and and those dealing with hydraulics and pneumatics in mechanical Engineering workbench.

Iran Khodro (Iran Largest Automobile Manufacturer)

Tehran, Iran

MECHANICAL ENGINEER

Jun. 2018 - Oct. 2018

• Involved in repairing atlascopco's equipment like nutrunners or other pneumatic or electrical equipment from samand's or Dena's production line.

Imam Khomeini International University Electronic Vehicle Student Team

Qazvin, Iran

MECHANICAL ENGINEER MEMBER

Jul. 2017 - Aug. 2020

• Member of aspaEV student team in mechanical engineering group for design and repair of electric cars And then were working on designing home-cleaning robots. (Website)

Notable Projects _____

Fast Learner Adaptability Ability to Work Under Pressure	
ADAMS [•••••] CATIA [•••••] Python [•••••]	
MATLAB [●●●●○] ABAQUS [●●●●○] SolidWorks [●●○○○]	
Skills	
2016 3rd Place , Environment Startup Weekend	Qazvin
Imam Khomeini International University, IKIU	•
Exempted from university entrance exam for M.Sc. program and offered M.Sc. program from	Qazvin
 Academy Peer Reviewer, Advances in Materials and Processing Technologies Journal Academy Peer Reviewer, Journal of Sandwich Structures and Materials 	-
Academy Peer Reviewer, Journal of Measurement and Control Academy Peer Reviewer, Advances in Materials and Processing Technologies, Journal	-
Honors & Voluntary Activity	
2018 Catia II , Mechanical Design	MFT Tehran
2021 Academy peer reviewer , Publons Academy Graduate	Publons
 Machine Learning, Grade Achieved: 93.23% Neural Networks and Deep Learning, Grade Achieved: 88.48% 	Stanford University DeepLearning.Al
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Top Certificates	
• Ebrahimi, F., Nopour, R. & Dabbagh, A; Link	,
Engineering with Computers	Apr. 2021
Effect of viscoelastic properties of polymer and wavy shape of the CNTs on the vibrational behaviors of CNT/glass fiber/polymer plates	IF:7.963
• Ebrahimi, F.; Nopour, R. & Dabbagh, A; Link	
Engineering with Computers	Nov. 2021
control of the system's oscillation	IF:7.963
Smart laminates with an auxetic ply rested on visco-Pasternak medium: Active	
• Ebrahimi, F.; Nopour, R. & Dabbagh, A;Link	Feb. 2022
dynamic response of hybrid nanocomposite beams	
Effects of polymer's viscoelastic properties and curved shape of the CNTs on	IF:4.853
• Nopour, R.; Ebrahimi, F.; Dabbagh, A & Aghdam, M. M.; Link	
Engineering with Computers	Feb. 2022
Nonlinear forced vibrations of three-phase nanocomposite shells considering matrix rheological behavior and nano-fiber waviness	IF:7.963
• Nopour, R.; Taghvaeipour, A.;Aghdam, M.M.;& González, F submitted	
MULTIBODY SYSTEM DYNAMICS	_
applications	IF:3.109
On the generalized Bézier-based integration approach for co-simulation	150.00
Journal Publication	
Jan. 2020 Analysis and Simulation of the Ring Rolling Process,	Finite Element Method
Jul. 2022 image that contains a deformed and damaged version ,	Data Mining
Economic Singular Value Decomposition to accurately retrieve the low-rank texture of an	Computational
May. 2022 Implementation of newly developed Bézier integration formula inside Cosimulation subsystems,	Advanced Numerical Methods
Aug. 2022 Elastostatic and Constraint-wrench Analysis of McGill Schönflies motion generator robot,	Multi-Body Systems
	Dynamics Dynamics of
Jan. 2022 Mars Rover Simulation,	Advanced



Advanced Dynamics	21/20 (Top Student)
Dynamics of Multi-Body Systems	18.9/20 (Top Student)
Finite Element Method	20/20 (Top Student)
Advanced Numerical Methods	19.3/20 (Top Student)
Computational Data Mining	18.7/20
Mechanical Engineering Design I	20/20 (Top Student)
System Identification	17.5/20
Automatic control	19/20 (Top Student)

Language Proficiency

English, C1-Advanced; Certificate of completion of the Upper-intermediate level at Safir language academy (The Second Largest English Language School in Iran) [Passing Mark: 96 from 100] ,[Certificate No: 00/E0649973], [Genuine Code: 0021396760], (See credential)

IELTS, Jun. 2022; estimated Score: 7.

Persian, Bilingual proficiency.