

Curriculum vitae
Mohammad Nezami

First name: **Mohammad**

Last name: **Nezami**

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<https://scholar.google.com/citations?user=81Hvp58AAAAJ&hl=en>

Short Biography

Research is “Creative and Systematic Work Undertaken to Increase the Stock of Knowledge”, and I followed this definition, as much as I could. In addition, I believe that the highest ability of any human being is his perseverance, and this ability have led me to defeat my encountering problems.

I have always been one of the best students from primary school to PhD Courses. In the entire period of education before the university, my GPA did not fall below 19. In addition, I finished the final exams of the third year of high school with a GPA of 19.90. As a person who was ranked first in the bachelor's and master's degrees in university and first in the master's entrance exam of Azad university, and became an elite student of Iran's aerospace industry, I have used all my efforts to improve my academic level and the level of knowledge in society.

I received my B.Sc., M.Sc. and Ph.D. Consecutively. My Ph.D.'s thesis, defined in the field of vibration control, hot field in Aerospace and Aeronautics, supervised by Prof. *Mohammad Hasheminejhad* in Acoustic Lab, lead to two Q1 Journal papers, defended at 2012, in a crowded public meeting with the A Grade, at *Islamic Azad University, Science and Research Branch*. My Ph.D.'s research activities lead me to stay in the academic environment, but in a different role, as a faculty member (at the age of 26), who defined and supervised more than 100 undergrad's final projects, during 17 years. Recently I have obtained the rank of associate professor in the field of aerospace and being among the few professors with this rank in Iran.

In addition to research, since I always believe that research work in university is not enough without cooperation in the industry, in the past few years, I started working in the aviation industry alongside the university, and now I am one of the few university professors who work as a senior manager in Iran's civil aviation industry. Regarding the implementation of the safety management system for the first time in Zagros Airlines, as a lecturer in this field in Iran, I am looking to improve the safety level of the civil aviation industry.

Academic Education

PhD in Aerospace Engineering (Feb. 2012). Islamic Azad University, Science and Research Branch

GPA: 16.5/20

Thesis Title: Supersonic flutter suppression of electro- and magnetorheological fluid-based adaptive panels and plates resting on elastic foundations using sliding mode control.

MSc in Aerospace Engineering, Structure Field (Feb. 2007). Islamic Azad University, Science and Research Branch

GPA: 17.09/20 (No 1 students)

Thesis Title: Dynamic Analysis of Free-Free Composite Plate

BSc in Maintenance Engineering of Aircraft (Sep. 2004). Civil Aviation Technology College

GPA: 18.51/20 (No 1 students)

Thesis Title: Edit and Preparation of the standards of Unmanned Aerial Vehicles.

Current Job

- The Safety and Quality Assurance Director of Zagros Airlines from Jun 2025 up to now.
- The Safety and Quality Assurance Director of Zagros Airlines from May 2022 up to Jun 2025.
- The Head of Independent System Monitoring of Zagros Design Organization.
- The Instructor of Civil Aviation Technology College from 2009 up to now.
- The Instructor of IRAN AIR Training System.
- The Instructor of Zagros Airlines Training System.
- The Instructor of Hamrah Koosha Ground Handling Company Training System.
- The Consultant of Air Shiraz and Mehr Airways (start up) for setting up Training Management System.

Work Experiences and Responsibilities

- Quality Assurance Manager of Zagros Airlines from September 2021 up to April 2022.
- QA Engineering and Maintenance Officer in Zagros Airlines from 2018 up to April 2021.
- The Consultant of Mehr Airlines (start up) for setting up SMS and QMS.
- FDM Analyzer in Zagros Airlines from April 2021 up to Jan 2022.
- CORSIA member of Zagros Airlines in Iran Civil Aviation Organization.
- Maintenance Engineer of Aircraft of Caspian Airlines for 2 years.
- Invited instructor of Civil Aviation Technology College from 2008 up to now.
- Invited instructor of Islamic Azad University, Damavand Branch for 4 years.
- Invited instructor of Islamic Azad University, Science and Research Branch for 6 years.
- Member of Research Council of Islamic Azad University, Firoozkoh Branch for 1 year.

- Member of Publication Council of Islamic Azad University, Firoozkooh Branch for 1 year.
- Responsible for Student Hovercraft Team of Islamic Azad University, Damavand Branch.
- Responsible for holding the meetings of 16th international Aerospace conference of Iranian Aerospace Society.
- Member of Scientific Committee of 16th international Aerospace conference of Iranian Aerospace Society.
- Member of the interview team for the aerospace PhD exam at Islamic Azad University.

Other Activities

- Founder of Composite Laboratory in Civil Aviation Technology College.
- Founder of Surface Vessels Laboratory in Islamic Azad University.
- Creator and Admin of a Technical Channel in Telegram (with more than 900 subscribers): @aircraftmaterials

Patent

- Design and Construction of Operational Aerial Vehicles with Robotic Arms.

Awards

- o Student No.1 in Civil Aviation Technology college in BSc.
- o Student No.1 in National MSc Entrance Exam of Islamic Azad University.
- o Student No1 in National PhD Entrance Exam of Islamic Azad University.
- o Student No.1 in Islamic Azad university in MSc.
- o Student No.1 in Final Exam of High School between students in Roshd High School in Tehran. (GPA: 19.91/20)
- o Holder of the certificate from the Iran Aerospace Association for obtaining the first rank among BA alumni in the field of aeronautics in 2005.
- o Holder of the certificate of appreciation as an elected researcher of Islamic Azad University, Firoozkooh Branch in 2017.
- o Holder of the Championship title of 1st Iranian Hovercraft Competition.

Role as Referee & Reviewer

- The Reviewer of 1 paper for the Mechanical Systems and Signal Processing Journal. (Q1, JIF: 7.9, Percentage Rank: 97.2%)
- The Reviewer of 3 papers for International Journal of Structural Stability and Dynamics. (According to Journal Citation Reports Index, this journal has a ranking of 55 among top journals.)
- The Reviewer of 1 paper for the Shock and Vibration Journal. (According to Journal Citation Reports Index, this journal has a ranking of 135 among top journals.)
- The Reviewer of 2 papers for the Journal of Solid Mechanics. (Q3)

- The Reviewer of 1 paper for the Journal of Solid and Fluid Mechanics.
- The Reviewer of 1 paper for the Journal of Aerospace Mechanics. (Q3)
- The Referee of a Research Project: “Kinematic Analysis of the Triangle-Star Robot with Telescopic Arm and Three Kinematics Chains as T-S Robot (3-PRP)” in Islamic Azad University, Firoozkooh Branch.
- The Referee of a Research Project: “Energy dynamic simulation Construction and calculation of thermos-physical properties using dynamics Computational fluids and inverse analysis” in Islamic Azad University, Damavand Branch.

Other Degrees and Certificates

- **CAA.IR Form 4** certificate for Post holders of Part 145 and Part M and Safety and Part 21 in civil aviation industry (based on EASA Regulations).
- Approved by the Civil Aviation Organization of Iran to work as a responsible manager in the field of safety and waiting to receive Form 4 related to the design field (Part 21) as Head of Independent System Monitoring.
- International American basic **Power plant** degree and European basic **B1** degree from Iranian Civil Aviation Authority.
- HVAC and Carrier Certificates from Novin Parsian Institute.
- **Reliability** from Taban Airlines
- **MOE** from ZAGROSAIRLINES
- **PART 145** from ZAGROSAIRLINES
- **SMS** from ZAGROSAIRLINES
- **Human Factor** from ZAGROSAIRLINES
- **PART M** from ZAGROSAIRLINES
- **Electrical Wiring Interconnection system (EWIS)** from ZAGROSAIRLINES
- **Fuel Tank Safety** from ZAGROSAIRLINES
- **PART 66** from Civil Aviation Technology College
- **Design Organization Approval (DOA)** from Civil Aviation Technology College
- **Dangerous Goods** from ZAGROSAIRLINES
- **Receiving and Shipping** from ZAGROSAIRLINES
- **Maintenance Cost Control Management** from ZAGROSAIRLINES
- **Air Ops** from ZAGROSAIRLINES
- **JT8D Type (Level 4 and 5)** from ZAGROSAIRLINES
- **ERP** from ZAGROSAIRLINES
- **PART 21** from ZAGROSAIRLINES
- **SAFA Ramp Inspection** from ZAGROSAIRLINES
- **Teaching Methods** from ZAGROSAIRLINES
- **Aviation Legislation** from ZAGROSAIRLINES
- **Air Side Safety/ Air Side Driver** from ZAGROSAIRLINES
- **Basics of Health, Safety & Environment (HSE)** from Iran Civil Aviation Organization
- **Airbus A320 Aircraft Familiarization** from ZAGROSAIRLINES
- **Route Cause Analysis** from Civil Aviation Technology College

Honors in Aviation as a Safety and Quality Director

- Setting up Safety Management System for the first time in Zagros airlines.
- Zero finding for 2 years in AOC Oversight from Safety Department.
- Setting up Data Drive Decision Making and Risk Assessment Decision Making for the first time in Zagros Airlines.
- Setting up Smart Authorization card for Certifying Staff for the first time in Zagros Airlines.
- Setting up Safety Reporting System based on Internet for the first time in Zagros Airlines.

Publications (Journals)

- 1- Dynamic response of Free-Free laminated curved panels subjected to explosive blast **M. Nezami**, JE Jam, and NG Nia, *Polym Comp* **30**(9):1199-1203 (2008). (According to Journal Citation Reports Index, this journal has a ranking of **10** among top journals.)
- 2- Dynamic Response of an Electrorheological Sandwich Beam with different Elastic Layers Subjected to Simultaneous Impact Loads, M. Sepehri Noor, **M. Nezami**, *Applied Mechanics and Materials*, (2012).
- 3- Supersonic flutter suppression of electrorheological fluid-based adaptive panels resting on elastic foundations using sliding mode control Seyyed M. Hasheminejad, **M. Nezami**, and M.E. AryaeePanah , *Smart Mater. Struct.* **21** 045005(2012). (According to Journal Citation Reports Index, this journal has a ranking of **17** among top journals.)
- 4- Flutter suppression of an elastically supported electrorheological fluid based adaptive plate under yawed supersonic flow Seyyed M. Hasheminejad, **M. Nezami**, and M.E. AryaeePanah *International Journal of Structural stability and Dynamics* (2012). (According to Journal Citation Reports Index, this journal has a ranking of **55** among top journals.)
- 5- Standing Gravity Waves in a Horizontal Circular Eccentric Annular Tank **M. Nezami**, M.M. Mohammadi, A. Oveisi. *Journal of Pressure Vessel Technology* (2014). (According to Journal Citation Reports Index, this journal has a ranking of **147** among top journals.)
- 6- Active flutter control of a supersonic honeycomb sandwich beam resting on elastic foundation with piezoelectric sensor/ actuator pair, **M. Nezami**, and B. Gholami, *International Journal of Structural stability and Dynamics* (2014). (According to Journal Citation Reports Index, this journal has a ranking of **55** among top journals.)
- 7- Liquid Sloshing in a Circular Container with Eccentric Tube under External Excitation, **M. Nezami**, M. M. Mohammadi, A. Oveisi, *Shock and Vibration* (2014). (According to Journal Citation Reports Index, this journal has a ranking of **135** among top journals.)
- 8- Optimal locations of piezoelectric patches for supersonic flutter control of honeycomb sandwich panels, using the NSGA-II method, **M. Nezami**, and B. Gholami, *Smart Mater. Struct.* (2016). (According to Journal Citation Reports Index, this journal has a ranking of **17** among top journals.)
- 9- Optimal locations of Magnetorheological fluid pockets embedded in an elastically supported honeycomb sandwich beams for supersonic flutter suppression. **M. Nezami**, and B. Gholami, *European Journal of Mechanics / A Solids* (2018). (According to Journal Citation Reports Index, this journal has a ranking of **22** among top journals.)

10- Supersonic Flutter of a Honeycomb Sandwich Beam with Cermet Covered Layer under Moving Load Configuration. **M. Nezami** J. Solid and Fluid Mechanics (2020). (According to Journal Citation Reports Index, this journal has a ranking of 22 among top journals.)

11- Supersonic flutter characteristics of truncated sandwich conical shells with MR core. Thin Walled Structures, A Houshangi, AA Jafari, SEH Haghghi, **M. Nezami**. (2022). (According to Journal Citation Reports Index, this journal has a ranking of 15 among top journals.)

12- Free damped vibration analysis of a truncated sandwich conical shell with a magnetorheological elastomer core, Waves in random and complex media A Houshangi, AA Jafari, S Etemadi Haghghi, **M. Nezami**. (2022). (According to Journal Citation Reports Index, this journal has a ranking of 24 among top journals.)

Publications (Conference Papers)

- o **M. Nezami**, J. E. Jam, R.Shafei, "Free Vibration of Free-Free Symmetric Laminated Curved Panels", The 16th Iranian Mechanics society conference, at Kerman, Iran, 2007.(in Persian)
- o **M. Nezami**, J.E Jam, "Free Vibration of Free-Free Anti Symmetric Cross ply Laminated Curved Panels", The 2nd International Joint conference in Composite Material at Vancouver, Canada, 2008.
- o **M. Nezami**, J.E Jam, "Free Vibration of Free-Free Symmetric cross ply Laminated Curved Panels", The 1st International conference in Composite Material at Kish, Iran, 2008.
- o Gh.Behfarshad, M.M.Heidari, **M. Nezami**, J.E Jam, Thrust & SFC comparison of turbojet and turbofan engine in different flight condition, The 8th Iranian Aerospace society conference, at Isphahan, Iran, 2009.(in Persian).
- o **M. Nezami**, M. Shabanimotlagh, S.M. Hasheminejad, Transverse vibration of electrorheological orthotropic sandwich beam, Structural Membranes, at Stuttgart, Germany, 2009.
- o **M. Nezami**, H. Imani, S.M. Hasheminejad, Sound Transmission Analysis of Scattered Sound Field from Isotropic circular Shell, 1st national congress of Aging aircraft parts and structures, at Tehran, Iran, 2011. (in Persian)
- o M. Aghai, **M. Nezami**, S.M. Hasheminejad, Base material variation effects on transverse vibration of an Electrorheological Sandwich Beam, The 11th Iranian Aerospace society conference, at Thran, Iran, 2012. (In Persian)
- o M.S. Aryae Panah, S.M. Hasheminejad, **M. Nezami**, Dynamic response control of an electrorheological fluid-based adaptive plate resting on elastic foundation, 11th International Conference on Vibration Problems, At Lisbon, Portugal, 2013.
- o **M. Nezami**, Structural parameters Effects on the flutter of Magnetorheological fluid-based adaptive panels, at Tehran, Iran, The 13th Iranian Aerospace society conference, 2014. (in Persian)
- o **M. Nezami**, B. Gholami, Structural parameters effects on supersonic flutter of Magneto-rheological fluid-based adaptive plates YIC GACM 2015.
- o J. Eskandari Jam, **M. Nezami**, B. Gholami. Foundation Effect on flutter of Electro-

rheological fluid-based adaptive beams, The 15th Iranian Aerospace society conference, at Tehran, Iran, 2016.(in Persian)

- N. Rajabi, *M. Nezami*, Verticla axis Wind Turbine optimization, using variable pitch mechanism, The 25th Iranian Mechanical society conference, at Tehran, Iran, 2017.

Publications (Books)

- Technical language for HVAC students, *M. Nezami*, M. Abedini, *Haraz Publications*, 2015.
- Algorithms and Flowcharts for General and Engineering Problems, *M. Nezami*, M. Sharifzade, *Sharifzade Publications*, 2016. (In Persian)
- Renewable energy considering Energy Consumption Management in HVAC, *M. Nezami*, M. Abedini, *Islamic Azad University Publications*, 2017. (In Persian)

Research Projects

- Liquid Sloshing in a Circular Container and Horizontal Circular Eccentric Annular Tank
- Structural parameters Effects on the vibration of Magnetorheological fluid-based adaptive panels
- Active flutter control of a supersonic honeycomb sandwich beam resting on elastic foundation with piezoelectric sensor/ actuator pair.
- Optimal locations of piezoelectric patches for supersonic flutter control of honeycomb sandwich panels, using the NSGA-II method.
- Design of 30 kW wind Turbines.

Hobbies & Extra Activities

- Doing Martial Arts (black belt holder in Kyokushin).
- Reciting poetry
- Classical Movies and Songs.
- Body Building.