

Resume

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Objective	Information				
Personal Details	Gender: Male	Year of Birth: 1981	City of Birth: Shiraz	Marriage status: married	Nationality: Iranian
Educational Records	<p>2007-2012 Sharif University of Technology, Tehran Ph.D. in Aerospace Engineering, Flight dynamics and Control, GPA: 17.32</p> <p>2003-2006 Sharif University of Technology, Tehran M. Sc. in Aerospace Engineering, Flight dynamics and Control, 2nd Rank in the aerospace college, GPA: 17.16</p> <p>1999-2003 Sharif University of Technology, Tehran B.Sc. in Aerospace Engineering and Analytical Physics, First Rank in the aerospace college, GPA: 16.98</p> <p>1995-1999 School of Talented students, Dezfool Diploma in Mathematics and Physics, First Rank in the region, GPA: 19.78</p>				
Thesis Publications	<ul style="list-style-type: none"> • Ph.D. Thesis: Aeroelastic modeling, experimentally validation and stability analysis of a flexible FMAV in planar Flight, under supervision of Dr. S. H. Pourtakdoust, February 2012 • M. Sc. Thesis: Computation of 3D Optimized flight path in climb phase of a jet transport aircraft and controller design, under supervision of Dr. A. A. Khayat, February 2006 • B. Sc. Thesis: Estimation of Aerodynamic Forces and Moments for a regional propeller aircraft based on semi empirical methods and code generation, under supervision of Dr. K. Mazaheri, January 2003 				

<p>Journal Papers</p>	<ol style="list-style-type: none"> 1. Azimi M. H., Hedesh A. M., Karimian S., Flow modeling in a porous cylinder with regressing walls using semi analytical approach, int. journal of Multiphysics, volume 9, No 1, pages 75-82, 2015. 2. Karimian S., Ebrahimi A., modeling of propulsion system in a flapping vehicle and parametric study, Iranian journal of aerospace propulsion, volume 1, No 1, pages 89-96, 2014 (in Persian). 3. Karimian S., Ebrahimi A., parametric study for kinematic optimization of flapping wing air vehicle using a new aeroelastic model, Modares mechanical engineering journal, volume 14, No 9, pages 73-80, 2014 (in Persian). 4. S. Karimian, M. Azimi, Periodic Solution for Vibration of Euler-Bernoulli Beams Subjected to Axial Load Using DTM and HA, Scientific Bulletin Series D, volume 76, Issue 2, pages 69–76, 2014. 5. Pourtakdoust S. H., Karimian S., Performance Analysis of the flapping wing propulsion based on a new experimentally validated aeroelastic model, Journal of system design and dynamics JSME, volume 6, No 1, pages 1-16, 2012. 6. Pourtakdoust S. H, Karimian S., Evaluation of the Flapping wing Propulsion based on a new experimentally validated aeroelastic model, journal of mechanical system Scientia Iranica, volume 19, No 3, pages 472-482, 2012. 7. Mazaheri K., Ebrahimi A., Karimian S., Performance Analysis of a Flapping wing Vehicle based on Experimental Aerodynamic Data, Journal of Aerospace Engineering ASCE, volume 25, No 1, pages 1-7, 2012. 8. Pourtakdoust S. H., Karimian S., Mazaheri K., Ebrahimi A., Experimental Analysis of a Flapping Aeroelastic Wing and Derivation of Generalized Curves, Journal of Aeronautical Engineering, volume 14, No 1, pages 13-25, 2012 (in Persian). 9. Pourtakdoust S. H., Karimian S., Khayyat A. A., Development of a new experimentally validated aeroelastic flight dynamics model for a flapping wing air vehicle, Transaction of the JSASS aerospace technology Japan, Accepted, waiting for publish.
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<p>Some of the Conference Papers</p>	<ol style="list-style-type: none"> 1. Karimian S., Stability and performance improvement of a flexible FMAV using adaptive PID controller, 8th Ankara international aerospace conference, Turkey, 2015 2. Karimian S., FMAV propulsion system modeling and parametric study, 2nd propulsion society conference, Tarbiat modares univ., Tehran, 2013 3. Karimian S., Hovering flight considerations for a flexible FMAV, 2nd propulsion society conference, Tarbiat modares univ., Tehran, 2013 4. Mazaheri K., Ebrahimi A., Karimian S., Dynamic simulation and
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	<p>performance analysis of a flapping wing air vehicle, aerospace conference, Malek univ., Isfahan, 2008</p> <ol style="list-style-type: none"> 5. Shahmoradi S. A., Karimian S., noise reduction in the capacitive MEMS accelerometer using Sigma Delta Modulator, Navigation system conference, Malek univ., Tehran, 2007 6. Karimian S., Mazaheri K., stability analysis of a FMAV based on the flight simulation, aerospace conference, Khaje nasir univ., Tehran, 2006 7. Mazaheri K., Karimian S., Buzarjomehri E., A practical method for optimization of dynamic characteristics of a FMAV, aerospace conference, Khaje nasir univ., Tehran, 2006 8. Shahmoradi S. A., Karimian S., Modeling of Brownian Noise in Capacitive MEMS Accelerometer, Mechatronics Int. conference and exhibition, Sharjeh university, Dubai, 2006 9. Khayyat A. A., 3D flight trajectory optimization in climb phase, ISME conference, Isfahan university, Isfahan, 2004 10. Shahmoradi A., Karimian S., Comparison of GPS and GALILEO systems, International aerospace conference and exhibition, Amir Kabir university, Tehran, 2003 (in Farsi)
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<p>Book</p>	<ul style="list-style-type: none"> • Shahmoradi S. A. and Karimian S., Design and Manufacturing of Capacitive MEMS Accelerometers, Malek University publication, 2005, Tehran, Iran (in Farsi)
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<p>Awards</p>	<ul style="list-style-type: none"> • Second Rank in M.S. graduates, aerospace engineering college, Sharif university, 2003-2006 • First Rank in M.S. aerospace engineering entrance exam, 2003 • First Rank in B.S. graduates, aerospace engineering college, Sharif university of technology, 1999-2003 • First rank of the high school in Talented regional school, 1995-1999 • Best paper award in the 2nd aerospace propulsion conference, 2013 • Third Rank in aircraft design contest, Isfahan, 2003 • First Rank in Iranian students Sport Olympiad, Tehran university, 2003 and Third Rank in regional sport competition, Ahwaz university, 2005 • Design and manufacturing of the first Iranian AFM and Tip scanning controller, ARA research Ltd., 2008 • Design and manufacturing of the first Iranian ornithopter, 2006
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<p>Job Experiences</p>	<ul style="list-style-type: none"> • Assistant professor in mechanical engineering faculty, Tarbiat Modares university, Tehran, since 2012 • Developing of hybrid systems Design environment, Sharif university research center, Tehran, 2008-2011 • Teaching of Mechanical and Aerospace Engineering courses in Jondi Shapur university, Dezfool, 2008-2012 (Thermodynamics, Fluid Mechanics, Mechanical Measurements, Gas Turbine and Jet Engine, Advanced Mathematics) • Modeling and simulation of flexible UAVs, Tadbirgaran sharif Energy co., Tehran, 2005-2008 • Design and Manufacture of high precession systems, ARA Research Ltd., Tehran, 2003-2005
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<p>Some of Technical Reports</p>	<ol style="list-style-type: none"> 1. ARA , MEMS gyro performance and noise analysis, 2003 (in Farsi) 2. ARA , Optical methods for displacement detection, 2004 (in Farsi) 3. ARA , Piezo Material properties and application, 2004 (in Farsi) 4. ARA , Design and Simulation of active anti vibration system, 2004 (in Farsi) 5. Tadbirgaran , Preliminary design of Tadbir ornithopter, 2005 (in Farsi) 6. Tadbirgaran , Design of stabilized platform for image processing, 2005 (in Farsi) 7. Tadbirgaran , Design of test stand for measuring the flapping wing parameters, 2006 (in Farsi) 8. Tadbirgaran , Optimization of design parameters of Tadbir flapping wing air vehicle, 2006 (in Farsi) 9. Tadbirgaran , Aeroelastic modeling of the flight dynamics of the flapping wing air vehicle, 2007 (in Farsi) 10. Tadbirgaran , Experimental Evaluation of the propulsion system of flapping wing vehicle, 2007 (in Farsi) 11. Tadbirgaran , Experimental investigation and dimensional analysis based on test results of flapping wing, 2008 12. Tadbirgaran , flight dynamics multi body modeling and simulation of flexible wings, 2008 (in Farsi)
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<p>Computer Environment Familiarity</p>	<ul style="list-style-type: none"> ➤ Academic Software and Packages MATLAB - Solid works - ADAMS - V. NASTRAN – FLUENT ➤ Programming Languages Visual Basic - Delphi
<p>Teaching ability</p>	<ul style="list-style-type: none"> • Unsteady aerodynamics • Advanced Aerodynamics • Advanced Mathematics • Computational fluid dynamics • Aeroelasticity and FSI • System modeling and Identification • Optimal control • Special topics in aerodynamics
<p>Research Fields and Interests</p>	<ul style="list-style-type: none"> ➤ Unsteady aerodynamics and wind turbines ➤ Active flow control and optimization ➤ Design and construction of MAVs and related Test stands ➤ Analytic models and Dynamic system study

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