

# Resume

## Personal Information

<b>Name and Family</b>	Reza Nasiri-Zarandi
<b>Gender</b>	Male
<b>Date of Birth</b>	10 September 1985
<b>Birth Town</b>	Zanjan-IRAN
<b>Marital Status</b>	Married
<b>Military Service</b>	Passed
<b>City of Residence</b>	TEHRAN,IRAN/TORINO,ITALY



## Contact Information

<b>Work Address</b>	Corso Duca degli Abruzzi, 24 - 10129 Torino, ITALY 424, Hafez Ave. Tehran, Iran, 13597-45778
<b>Home Address</b>	Via Tripoli 10/21, Torino. Italy
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## Education

Degree	Field of Study	University/Town	Period (years)	Started - Ended
Ph.D Student	power electrical engineering	Politecnico di Torino/Amirkabir University of Technology, Tehran	4	2010-right now
<b>Thesis title: " Analysis, Design and Prototyping of a Hybrid Hysteresis Motor with Novel Structure"</b>				
<b>GPA: 17.04/20</b>				

Degree	Field of Study	University/Town	Period (years)	Started - Ended
MSc.	power electrical engineering	Amirkabir University of Technology- Tafresh campus	2	2008-2010
<b>Thesis title: " Analysis, Design and Prototyping of a Limited Angle Torque Motor with Novel Structure "</b>				
<b>GPA: 17.85/20</b>				

Degree	Field of Study	University/Town	Period (years)	Started - Ended
BSc.	power electrical engineering	Khaje Nasir University of Technology, Tehran	4	2004-2008
<b>Thesis title: " Analysis, Design and Prototyping of an Axial Flux Permanent Magnet Slotless Motor "</b>				
<b>GPA: 14/20</b>				

## Training and Certification

Certificate	Institute	Period (days)	Year attended
Design of Experiments (DOE)	Khaje Nasir university of Technology	45	2013
Matlab & Simulink	Amirkabir university of technology	60	2011
Ansoft Maxwell software	Amirkabir university of technology	60	2009
Design of Energy Storage Networks	Moghtader Research company	45	2009
Design and implementation of AC/DC Machines winding	Khaje Nasir university of technology	90	2006

## Work Experience

Position	Employer	Started-Ended	Activities
Technical expert in the design and construction of small electrical Motors	Moghtader Research company	2007-2011	Designer of prototypes Planning production stages Computer simulation Designer of functional tests
Technical expert in the design and construction of small Motors windings	Electrical Machines and Transformers Research Lab of Khaje Nasir University of Technology	2006-2008	Design of winding Implementation of windings
Researcher in modeling of a flywheel energy storage system	Ministry of power and energy	2012-2013	Modeling and design

## Educational Experience

Course title	University/Town	Period (term)
Teacher Assistance in Electrical Machinery 2	Amirkabir University of Technology/Tehran	2
Teacher Assistance in Finite Element Analysis	Khaje Nasiri University of Technology/Tehran	1
Research Assistance in Design of electrical machines	Amirkabir University of Technology/.Tehran	5
Teacher in Industrial Electronic	Islamic Azad University/Islamshahr	1
Teacher in Electrical Machinery 1	Islamic Azad University /Shahre rey	3
Teacher in Electrical Machinery 2	Islamic Azad University / Shahre rey	1
Teacher in Electrical Installations	Tafresh University	2

## Consulting Offered

Project title	University/Town	Year
Co-Adviser in MSc final project, "Performance	Islamic Azad University /Qazvin	2012-2013

Prediction and Modeling of an AFPM Generator with Novel Structure “		
Co-Adviser in MSc final project, “Design and Prototyping of an AFPM Generator with Novel Structure “	Islamic Azad University /Qazvin	2012-2013
Co-Adviser in MSc final project, “Analysis and Performance Prediction of a Radial Flux Hysteresis Motor with optimized Parallelogram Modeling”	Islamic Azad University /Qazvin	2012-2013
Co-Adviser in MSc final project, “Analysis the Effect of Airgap Variation in Performance of an Axial Flux Hysteresis Motor”	Islamic Azad University /Qazvin	2012-2013

### Skills And Abilities

<b>Modeling, Design and Prototyping of Small Electrical Machines (DC, AC, Servo, Brushed and Brushless)</b>
<b>Modeling, Design and Prototyping of Special Machines (Limited Angle Torque Motors, Hysteresis Motors, High Speed Motors)</b>
<b>Finite Element Analysis of Electrical Machines with Ansoft Maxwell 2D &amp; 3D software pack</b>

### Publications

1	<b>Nasiri-Zarandi, R.;</b> Mirsalim, M., " <i>Analysis and Torque Calculation of an Axial Flux Hysteresis Motor Based on Hyperbolic Model of Hysteresis Loop in Cartesian Coordinates,</i> " in <b><i>Magnetics, IEEE Transactions on</i></b> , vol.51, no.7, pp.1-10, July 2015 (ISI)
2	<b>Nasiri-Zarandi, R.;</b> Mirsalim, M.; Cavagnino, A., " <i>Analysis, Optimization, and Prototyping of a Brushless DC Limited-Angle Torque-Motor With Segmented Rotor Pole Tip Structure,</i> " in <b><i>Industrial Electronics, IEEE Transactions on</i></b> , vol.62, no.8, pp.4985-4993, Aug. 2015 (ISI)
3	<b>Nasiri-Zarandi, R.;</b> Mirsalim, M.; Tenconi, A., " <i>A Novel Hybrid Hysteresis Motor with Combined Radial and Axial Flux Rotors,</i> " in <b><i>Industrial Electronics, IEEE Transactions on</i></b> , early Access, Oct. 2015 (ISI)
4	<b>Nasiri-Zarandi, R.;</b> Mirsalim, M., " <i>Finite Element Analysis of an Axial Flux Hysteresis Motor Based on Complex Permeability Concept Considering the Saturation of the Hysteresis Loop,</i> " in <b><i>Industry Application, IEEE Transactions on</i></b> , early Access, Oct. 2015 (ISI)
5	<b>Nasiri-Zarandi, R.;</b> Mirsalim, M.; Tenconi, A., " <i>Performance Analysis of a Novel Hybrid Hysteresis Motor Using Hyperbolic Modelling,</i> " in <b><i>Mechatronics, IEEE Transactions on</i></b> , Under revision, Sept.. 2015 (ISI)
6	<b>Nasiri-Zarandi, R.;</b> Mirsalim, M., " <i>Sensitivity Analysis of an Axial Flux Hysteresis Motor Based on the Parallelogram Approximation of the Hysteresis Loop,</i> " in <b><i>Electric Power Application, IET</i></b> , Under revision, Sept.2015 (ISI)
7	Roohnavazfar, M., <b>Nasiri-Zarandi, R.;</b> Mirsalim, M., " <i>Using Axiomatic Design Theory for Selection of the Optimum Design Solution and Manufacturing Process Plans of a Limited Angle Torque Motor,</i> " in <b><i>Journal of Manufacturing Science and Engineering, ASME</i></b> , vol.136, no.2, pp.1-10, Oct. 2014 (ISI)
8	<b>Nasiri-Zarandi, R.;</b> Meshgin kelk, H., " <i>Comprehensive design of a toroidally-wound limited angle torque motor.</i> " <b><i>Journal of International Review of Electrical Engineering (IREE)</i></b> 6 (2011): 198-206.
9	Roohnavazfar, M., <b>Nasiri-Zarandi, R.;</b> Mirsalim, M., " Optimization of design parameters of a limited angle torque motor using analytical hierarchy process and axiomatic design theory," in <b><i>Production</i></b>

	<b>&amp; Manufacturing Research Journal, Taylor &amp; Francis</b> , vol.2, no.1, pp.400-414, May. 2014. 400-414.
10	Gholamian, A. , <b>Nasiri-Zarandi, R.</b> , " <i>Optimom Design of Axial Flux Permanent Magnet Slotted TOURS Motor using Genetic Algoritm</i> ," in <b>International Journal of Applied Engineering Research</b> , Jan 1, 2009.
11	<b>Nasiri-Zarandi, R.</b> ; Mirsalim, M.; Ashrafi, R., " <i>Effect of air-gap variation and the numberof stator slots on performace of an axial flux hysteresis motor</i> ," in <b>Power Electronics, Drives Systems &amp; Technologies Conference (PEDSTC), 2015 6th</b> , vol., no., pp.609-614, 3-4 Feb. 2015
12	<b>Nasiri-Zarandi, R.</b> ; Mirsalim, M.; Ashrafi, R., " <i>Investigation of the effect of winding distribution and slot opening on performace of an axial flux hysteresis motor</i> ," in <b>Power Electronics, Drives Systems &amp; Technologies Conference (PEDSTC), 2015 6th</b> , vol., no., pp.316-321, 3-4 Feb. 2015
13	<b>Nasiri-Zarandi, R.</b> ; Mirsalim, M., " <i>Finite element analysis of an axial flux hysteresis motor based on complex permeability concept considering the saturation of the hysteresis loop</i> ," in <b>Electrical Machines Design, Control and Diagnosis (WEMDCD), 2015 IEEE Workshop on</b> , vol., no., pp.90-96, 26-27 March 2015

### Patents

"A Limited Angle Torque Motor with Radially Segmented Rotor" , <b>IRAN Patent Organization " With a Certification from IRAN National Elite Foundation"</b> , 2011
"A Double Rotor Axial Flux Permanent Magnet Slotless Generator with Novel Structure", <b>IRAN Patent Organization</b> , 2009
"A segmented stator AFPM generator with very good cooling for use in wind turbines", <b>IRAN Patent Organization</b> ,2013-in process

### Computer Skills

Ansoft Maxwell 2D & 3D , RM Expert
Matlab & Simulink, Maple, Orcad Capture (PSPICE)
Solid Work and Auto cad
Microsoft Office (word, Excel, Power Point, Visio, MS project)
Windows (XP, Vista, Seven)
Minitab

### Foreign Language

Language	Conversation	Translation	Writing	Reading
Farsi	native	native	native	native
English	fluent	fluent	fluent	fluent
Turkish/Azerbaijani	native	native	native	native
Italian	familiar			