

# BARDIA ZAMANIAN

*School of Electrical & Computer Engineering, University of Tehran, Tehran, Iran*

**E-Mail:** bardia.zamanian@yahoo.com    **Phone:** (+98) 920-3223715

## Objective

Starting M.Sc. program in Fall 2015.

## Research Interests

Artificial Intelligence  
Machine Learning  
Game Theory  
Social Networks

## Educational History

2010–present	<b>B.Sc.</b> Electrical Engineering <i>ECE Department, The University of Tehran, Tehran, Iran</i> Specialized in Control Systems <i>GPA (so far) : 15.8/20.0</i> <i>GPA for Computer Science related courses (so far) : 17.98/20.0</i>
2006–2010	Diploma of Mathematics and Physics Discipline <i>Shahid Beheshti Sari High School, under the supervision of</i> NODET (National Organization for Developing Exceptional Talents), Sari, Iran <i>GPA : 19.54/20.0</i>

## Research Experience

Summer 2013–present	Research assistant in <a href="#">Advanced Robotics and Intelligent Systems Laboratory</a> in the University of Tehran, in Dome Climbing Robot Project under supervision of <a href="#">Dr. Hadi Moradi</a> .
Summer 2014	Researched in <a href="#">Formal Methods and System Verification Lab</a> in the University of Tehran for internship program, innovated a new method to efficiently generate test cases for compilers of textual languages, under supervision of <a href="#">Dr. Ramtin Khosravi</a> .

## Publication

Conference Paper	M.H Salehpour, <b>B. Zamanian</b> , Hadi Moradi, "The Design, Implementation, and Stability Analysis of a Human-Inspired Dome-Tethered Robot". The 2nd RSI International Conference on Robotics and Mechatronics, 2014. (under print)
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## Honors

Fall 2010	Ranked 3rd in University of Tehran ACM AI-Contest 2010 for freshman students.
Summer 2010	Ranked regionally 275th among more than 150,000 participants in national university entrance exam.

## Teaching Experience

Fall 2013	Introduction to Computing Systems and Programming	Teaching Assistant and Project Supervisor	<a href="#">Dr. Hadi Moradi</a> .
Fall 2012	Electronics I Laboratory	Teaching Assistant	<a href="#">Dr. H Ramezani Tabar</a> .

## Selected Academic Projects

Fall 2013	Design and implementation of a <b>Pacman Agent</b> using alpha-beta pruning algorithm, developed in PYTHON.	Artificial Intelligence, <a href="#">Dr. Maryam S. Mirian</a>
Fall 2013	Design and implementation of a <b>Reversi Playing Agent</b> participating in an AI-Contest (as an optional project), developed in PYTHON, honored as the agent with the <b>best idea</b> of the playing algorithm.	Artificial Intelligence, <a href="#">Dr. Maryam S. Mirian</a>
Spring 2012	Design and implementation of an <b>Automated Temperature Controller</b> for electrical samovar with semi-industrial functionality, with the help of my teammates Ali Moharramipour and Farbod Molaei, the <b>only</b> team which achieved to fully design and implement the controller.	Electronics II Laboratory, <a href="#">Dr. Shahin Jafarabadi-Ashtiani</a>
Fall 2011	Design and implementation of a <b>Search Engine</b> on text files with indexing and instant search, with the help of my teammate Peyman Mahdian, using Java, honored as the <b>best algorithm design</b> .	Data Structure and Algorithms, <a href="#">Dr. Heshaam Faili</a>
Spring 2011	Design and implementation of a <b>Graphical Calculator</b> with mathematical expression parser, plotting feature, and mathematical derivation, in C++ with FLTK GUI.	Advanced Programming, <a href="#">Dr. Ramtin Khosravi</a>

## Related Courses

Fall 2013	Artificial Intelligence: 17/20
Spring 2013	Computer Architecture: 16.2/20
Fall 2012	Numerical Computation: 18.3/20
Fall 2011	Data Structure: 17.1/20
Fall 2011	Engineering Probability and Statistics: 19.8/20
Spring 2011	Advanced Programming: 18.46/20
Spring 2011	Discrete Mathematics: 17.85/20
Spring 2011	Calculus II: 18.5/20
Fall 2010	Introduction to Computer and Programming: 17/20
Fall 2010	Calculus I: 20/20

## Computer and Technical Skills

Programming Languages /Tools	C/C++, JAVA, PYTHON, MATLAB	Pro
	Clips ,C#, Assembly, ANTLR	Familiar
HDL	Verilog	Pro
Circuit Design Tools/Simulators	Codevision AVR, Simulink(MATLAB), Modelsim(Verilog), MultiSim	Pro
	Quartus II, HSPICE, Altium Designer, OrCAD, Proteus	Familiar

## Membership Experience

Fall 2012 - Fall 2013	Served as Secretary of IEEE Student Branch of University of Tehran
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## Language Skills

Language	Persian English Arabic, Mazanderani(Tabari)	Native Excellent Basic
TOEFL iBT	Total 91 (Reading 24, Listening 24, Speaking 23, Writing 20)	

## Hobbies and Other Activities

Sports	Soccer, Basketball, Tennis
Art	Film editing, Playing piano

## Reference

Available upon request.