

# Athena Kardehi Moghaddam

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## EDUCATION

University Sep. 2005 - present	<ul style="list-style-type: none"><li>• B.Sc. in Computer Engineering - Hardware, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Tehran.</li><li>• Overall GPA until now: 15.36/20.00 Last year GPA: 17.24/20.00</li></ul>	Tehran, Iran
High School Sep. 2001 - Jul. 2005	<ul style="list-style-type: none"><li>• Farzanegan High School, under the supervision of NODET (National Organization for Developing Exceptional Talents)</li></ul>	Mashhad, Iran

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## FIELDS OF INTEREST

- Multi-Agent Systems
- Mobile Robotics
- Autonomous Agents
- Human Computer Interaction
- Machine Learning

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## TEACHING EXPERIENCE

<b>ECE Department</b> Spring 2008	<ul style="list-style-type: none"><li>• <b>Teaching Assistant</b></li><li>• Computer Architecture</li><li>• Dr. Saeed Safari</li></ul>	Tehran, Iran
<b>ECE Department</b> Fall 2007	<ul style="list-style-type: none"><li>• <b>Chief Teaching Assistant</b></li><li>• Digital Logic Design</li><li>• Dr. Zainalabedin Navabi</li></ul>	Tehran, Iran
<b>ECE Department</b> Fall 2007	<ul style="list-style-type: none"><li>• <b>Teaching Assistant</b></li><li>• Data Structures and Algorithms</li><li>• Dr. Hesham Faili</li></ul>	Tehran, Iran
<b>ECE Department</b> Spring 2007	<ul style="list-style-type: none"><li>• <b>Teaching Assistant</b></li><li>• Advanced Programming</li><li>• Dr. Alireza Abedinejad</li></ul>	Tehran, Iran
<b>ECE Department</b> Fall 2006	<ul style="list-style-type: none"><li>• <b>Teaching Assistant</b></li><li>• Fundamentals of Computer and Programming</li><li>• Dr. Siamak Mohammadi</li></ul>	Tehran, Iran

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## WORKING EXPERIENCE

### Industrial Robotics Lab.

June 2009 - present

- **Design and Manufacturing of an Intelligent Fuel Injection Control System**
- Team Project
- Ordered by Iran Khodro Co.
- Supervised by Dr. Majid Nili

Tehran, Iran

## HONORS AND AWARDS

- **2nd Place, Othello Competition:** Spring 2007, Programming Intelligent Decision Making Agents for Othello Board Game Competition, Department of Electrical and Computer Engineering, University of Tehran
- **2nd Team Rank, Nationwide Hellinet Intelligent Agent Programming Contest:** Spring 2006, Programming Intelligent Players for Police-and-Thief Game, NODET Contest among High School and University Students
- **1st Team Rank, Mashhad Programming Contest:** Spring 2004, High School Students Programming Contest, Mashhad
- **Selected as "Exceptional Talents" by National Organization for Educational Testing:** Summer 2005
- **Top 0.03% of the Nationwide Matriculation Exam:** Summer 2005, 185th Rank among Nearly 500,000 Participants
- **37th Rank in National Graduate Entrance Exam:** Spring 2008, Artificial Intelligence Field
- **56th Rank in National Graduate Entrance Exam:** Spring 2008, Computer Architecture Field

## RESEARCH AND PRACTICAL EXPERIENCE

- **Developing a Game Tool for the Handicapped:** Summer 2009, Developing a Game Tool Using Accelerometer and Programming a Game Proper for the Handicapped, Supervised by Dr. Masoud Asadpour
- **Design and Implementation of Chess Playing Tool based on FPGA Programming:** Fall 2008, Developing LCD and Mouse Interfaces and the Game Program Using VHDL Programming Language on a UP3 Board, Supervised by Dr. Saeed Safari
- **Simulation and Modification of a Modified Booth Multiplier:** Spring 2008, Simulation of a Modified Booth Multiplier Using HSPICE and Modification to Get Faster Response, Supervised by Dr. S. Mehdi Fakhrai
- **Pipelined Processor Based on MIPS Architecture:** Fall 2007, Design and Implementation of a Fully Functional Pipelined Processor Based on MIPS Architecture Using Modelsim Simulator, Supervised by Dr. Saeed Safari
- **HTTP Server and Download Manager:** Summer 2006, Implementation of a Web-Server and a Download Manager for Linux, Supervised by Dr. Alireza Abedinejad

## COMPUTER SKILLS

- **Computer Software Languages:**
  - Professional in C/C++, Java
  - Familiar with C#
  - Familiar with Web Design and Programming (ASP .NET)
- **Computer Hardware Languages:**
  - Professional in Verilog, VHDL
  - Familiar with Assembly 8086, SPICE
- **Frameworks and Simulation Software:**
  - Modelsim
  - Quartus II, NIOS II
  - HSPICE, PSPICE, LEdit
  - Database Design and Managements (MS SQL Server)

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#### LANGUAGE SKILLS

- **English : Fluent**
    - TOEFL and GRE reports will be available in October
  - **Persian : Native**
  - **Arabic : Familiar**
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#### HOBBIES

- Playing Adventure Computer Games
  - Playing Taar(a traditional musical instrument)
  - Swimming
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#### REFERENCES

- Available upon request
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#### PERSONAL INFORMATION

- **Nationality:** Iranian
- **Birth Date:** May 30, 1987
- **Place of Birth:** Mashhad, Iran