
Hasan Azizi

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EDUCATION

- **Master of Science** Aug. 2009 — Feb. 2012
University of Tehran, Tehran, Iran
Advisor: Dr. Farshad Azizi
Major: Electrical Engineering, Mechatronic Systems (G.P.A: 15.85/20.0),
Thesis Title: Design and Implementation of a Robot.
- **Bachelor of Science** Aug. 2005 — Aug. 2009
University of Tabriz, Tabriz, Iran
Advisor: Dr. Azizi
Major: Electrical Engineering, Control Systems (G.P.A: 16.12/20.0), (Class Rank: 3, top 10%)
Thesis Title: Research on the Robots.

RESEARCH INTERESTS

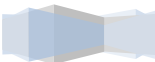
- Control Systems (Hybrid Control Systems, Discrete Event Systems, Robust Control)
- Robotics (Bio-Inspired Robots, Design, Implementation & Control of Robotic Systems)
- Intelligent Systems, Computational Intelligence
- Applying Control Theory and Optimization to Robotic Systems
- Embedded Software & Hardware Co-design for Mechatronic & Robotic Applications

PUBLICATIONS

Journal Articles

1. **H. Azizi**, N. Azizi, "A Nonlinear Controller for Robots ", Submitted to the IEEE Journal of Robotics

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2. **H. Azizi**, N. Azizi, "A Network-Based Platform ", Under preparation

Conference/Workshop Papers/Posters

1. **H. Azizi**, N. Azizi, "A Nonlinear Controller for Robots", Submitted to the IEEE Journal of Robotics
2. **H. Azizi**, N. Azizi, "A Network-Based Platform", Under preparation

Presentations/Workshops

1. **H. Azizi**, N. Azizi, "A Nonlinear Controller for Robots", Submitted to the IEEE Journal of Robotics
2. **H. Azizi**, N. Azizi, "A Network-Based Platform", Under preparation

Books

1. **H. Azizi**, N. Azizi, "A Nonlinear Controller for Robots", Submitted to the IEEE Journal of Robotics
2. **H. Azizi**, N. Azizi, "A Network-Based Platform", Under preparation

Patents Pending

1. **H. Azizi**, N. Azizi, "A Nonlinear Controller for Robots", Submitted to the IEEE Journal of Robotics
2. **H. Azizi**, N. Azizi, "A Network-Based Platform", Under preparation

SERVICES

- Reviewer of Journal of Operation Research (JORS).
- Reviewer of Conferences (CEAT 2013, ISCI 2012, ISIEA 2012, ISBEIA 2012, ISCAIE 2012, ICCAIE 2011).

PRACTICAL RESEARCH EXPERIENCE AND COLLABORATION

- Segway Robot, 2013. ([Present, Preparing for 2013 Robotic Contests and Festivals](#))

Last Update: October 2013

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- Network-Based Control of Industrial and Medical Robots, 2013.
 - Data Logger & Monitoring Platform for Fiber Optic Testing Systems, summer 2013.
 - Snake Robot, 2012. (Won Bronze Medal in AUTCUP 2012 Robotic Contest)
 - Control & Monitoring Platform for High-Speed Motor Testing Systems, summer 2012.
 - Quad Rotor, 2011-2012.
 - PA10 7-DOF Robotic Arm, 2010-2011.
 - MELFA Mitsubishi 5-DOF Robotic Arm, 2010. (Won the Student Award and Certificate of Excellence)
 - Autonomous Carpet Washer Robot, 2010.
 - Network-Controlled Robots, 2010-2011.
 - Gryphon Robot, 2008.
 - Semiconductor Devices, 2007-2009. (Results were Published as Two Books)

INTERNSHIP EXPERIENCES

- **Azin Bargh, Inc.**
 - Programmer [Summer 2008, 2009, 2010, 2011]
I was responsible for designing, testing and implementing interdisciplinary projects.

TEACHING & WORK EXPERIENCES

- **Azin Bargh, Inc.**
 - Senior Scientist, Programmer & Expert [Sep. 2011 – Nov. 2012]
- **Electrical Engineering Department, Tehran University**
 - Introduction to Robotics, Lecturer [Winter, Spring 2013]
 - Advanced Robotic Systems, TA for Graduate Students [Winter, Spring 2013]
 - Industrial Control Systems, Lecturer [Winter, Spring 2013]
 - Microcontrollers, Lecturer [Winter, Spring 2013]
 - Multimedia Environments, Lecturer [Winter, Spring 2013]
 - Technical English, Lecturer [Winter, Spring 2011, Winter, Spring 2013]
 - Robotic, Lab Instructor [Winter, Spring 2013]



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- Microcontrollers, Lab Instructor [Fall 2012, Winter, Spring 2013]
 - Instrumentation Systems, Lab Instructor [Winter, Spring 2013]
 - Electronic I & II, Lab Instructor [Fall 2012, Winter, Spring 2013]
 - Electrical Measurement, Lab Instructor [Winter, Spring 2013]
 - PLC, Lab Instructor [Winter, Spring 2013]
 - Data Acquisition Systems, Lab Instructor [Winter, Spring 2013]
 - Linear Control Systems, Lab Instructor [Fall 2011, Fall 2012]
 - Digital Circuits, Lab Instructor [Fall 2010, Fall 2012, Winter, Spring 2013]
 - Electrical Circuits, Lecturer [Fall 2011]
 - Linear Control Systems, TA [Spring 2011]
 - Signal and Systems, TA [Spring 2011]
 - Electronic Circuits, TA [Winter, Spring 2010, Fall 2010, Winter, Spring 2011, Fall 2011]
 - **Electrical Engineering Department, Tehran University**
 - Microprocessors, Lecturer [Fall 2012]
 - Electronic Circuits I, Lecturer [Fall 2012]
 - **Electrical Engineering Department, Amirkabir University of Technology**
 - Advanced Industrial Control Systems, TA [Winter, Spring 2011]
 - [Computer Programming, TA](#) [Fall 2009, Fall 2011]
 - Industrial Control, Laboratory Assistant [Fall 2011]
 - Labview Graphical Programming, Lecturer [from Fall 2009 to Fall 2012 every Semester]
 - **Electrical Engineering Department, University of Tabriz**
 - Computer Aided Design, TA [Winter, Spring 2009]

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- Electronic I, TA [Winter, Spring
2009]
 - [Mathematics I, TA](#) [Fall 2006
]
 - [Mathematics II, TA](#) [Fall 2007
]
 - **Electrical Engineering Department, University of Qom**
 - Electrical Measurement, Lab Instructor [Winter, Spring
2013]

COURSE DESIGN

- **Electrical Engineering Department, Amirkabir University of Technology**
 - Industrial Robotic Laboratory [Spring 2010]
 - Mechatronic Laboratory, [Winter
2010]
- **Electrical Engineering Department, Tehran University**
 - Robotics Laboratory [Spring 2011
]
 - Sensors and Actuators Laboratory [Summer
2011]
 - Instrumentation Laboratory [Fall
2012]

HONORS AND AWARDS

- [Among top three students in Undergraduate Program, \(top 10%\)](#), Department of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran; Sep. 2005 to Sep. 2009.
- Among top %5 candidates in the Iranian National PhD Entrance Exam for Control Engineering Major, June 2013.
- Won 3rd Place Award, AUTCUP 2012 International Robotic Contest, Amirkabir University of Technology, Tehran, Iran; October 2012.
- Student Award and Certificate of Excellence for Restoring and Renovating the MELFA Mitsubishi 5-DOF Robot, Amirkabir University of Technology, Tehran, Iran, spring 2011.
- Ranked 22th (Out of 20,000+) in the Iranian National University Entrance Exam for Master Degree in Electrical Engineering, Iran, summer 2009.
- Best Student Project Award, Electronic I, Department of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, spring 2006.

SKILLS



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- [LABVIEW](#), MATLAB, Python, Java, C, C++, Pascal, FORTRAN, Basic, Maple, Microprocessors (ARM, FPGA, XMEGA, PIC, AVR), PLC, Protel, Latex, Web Programming and Designing, ([Note: Proficient in LABVIEW](#))

LANGUAGE SKILLS

English: Writing ability: Excellent, Reading ability: Excellent, Speaking ability: Good

English Tests:

TOEFL 95 (iBT),

GRE 309, Verbal: 144(21%), Quantitative 165 (91%), Writing 3.5 (35%)

PROFESSIONAL ACTIVITIES & MEMBERSHIPS

- IEEE Student Member
- IEEE Control Systems Society
- IEEE Robotic & Automation Society

VOLUNTEER WORK & COMMUNITY SERVICE

- Local Charity-Voluntary Youth Organization
- Iranian Non-Profit Organization of Organ Donates, (www.ehda.ir)
- Non-Profit Organization of Blood Donates
- Tehran Amateur Chess Organization, (www.chessteheran.ir)
- Qom Amateur Chess Organization
- Qom Computer Gamers Club, (www.mersasport.ir)
- Student Scientific Committee of Electrical Engineering Department, Amirkabir University of Technology
- Student Scientific Committee of Electrical Engineering Department, University of Tabriz

EXTRA CURRICULAR ACTIVITIES

- Chess, Football, Walking, Cinema, Writing Poetry, History Books, Management Books, Blogging, Photography, Singing in (Iranian traditional style).

REFERENCES

1. Dr. Azizi, PhD

Professor
Department of Electrical Engineering
The Amirkabir University of Technology

2. Dr. Azizi, PhD

Associate Professor
Department of Electrical Engineering
The Amirkabir University of Technology



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Curriculum Vitae

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3. Dr. Azizi, PhD

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4. Dr. Azizi, PhD

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Tabriz, Iran, 51666-16471
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