Azadeh Doroudchi

AFFILIATION:	Graduated from University of Tehran,
	Was a member at Tarlab
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Research Interests

Robotics, Mechatronics, Smart Materials, Nonlinear Control, Adaptive Control, System Identification, Optimization, Neural Networks, Artificial Intelligence.

Academic Background

2013 - 2016 **MSc**, University of Tehran, (Mechatronics Engineering)
GPA: 18.81 (out of 20)
Thesis: Design, Modeling, Manufacturing and Control of Rotary Actuator Actuated by Shape Memory Alloy Wires.
Core modules: Advanced Robotics, Mechatronics I-II, Nonlinear Control, System Identification, Artificial Intelligence, Advanced Engineering Mathematics.

2008 - 2012 **BSc**: Shiraz University (Electrical Engineering, Control field).
GPA: 16.30 (out of 20)
Thesis: Designing and constructing an AC/DC Converter with various ranges of output voltage (+2-50 Voltage) by new approach in digital controlling of Buck and Boost converters.
Core modules: Digital Control Systems, Modern Control Systems, Industrial Control I, Industrial Control II (PLC), Linear Control Systems, Instrumentation, Fundamentals of Microcomputers, Modern Physics.

2004 - 2008 **High School**, NODET (National Organization for Development of Exceptional Talents), Shiraz branch, Iran.
GPA: 19.81 (out of 20)

Accepted Papers

ICROM 2015, indexed in IEEE Xplore An Experimental Study on Open-loop Position and Speed Control of a 3-RRR Planar Parallel Mechanism

ICE 2016, International Conference, Dubai Modeling and Simulation of a SMA-Actuated Rotary Manipulator with Experimental Validation

ICROM 2016, will be indexed in IEEE Xplore Experimental Identification of Friction and Dynamics of an Overconstrained 3-DOF Decoupled Parallel Mechanism

Submitted Papers

Sensors and Actuators A: Physical Modeling and control of a fast response SMA-actuated rotary manipulator with experimental data

Industrial Experiences (Internship)

Spring 2013	**Shiraz Petrochemical Company (SPC)**, Shiraz, Fars, Iran. The company's activity is in producing Fertilizers. Worked in utility unit control room.
Summer 2011	**Noavaran Hooshmand Fars Co.**, Shiraz, Iran. The company's activities are focused on intelligent buildings and building management systems.

Honors

- Ranked 1st among Mechatronics Engineering students throughout MSc.
- Ranked 41 among 100,000 students in Islamic Azad University's MSc entrance exam of electrical engineering, Iran, 2013.
- Ranked 687 among 300,000 students in National BSc entrance exam of math and physics, Iran, 2008.
- Ranked 10 among 300,000 students in Islamic Azad University's BSc entrance exam of math and physics, Iran, 2008.
- Ranked 1st among 200 selected students in Chemistry Lab Competition among high school students, Fars, Iran, 2007.
- Chemistry Olympiad winner, Iran, 2007.

Programming skills

- **Engineering Software**: LabVIEW, Pspice, SolidWorks.
- **Programming**: MATLAB, Qt creator, C++, Arduino ide, Bascom(AVR), CodeVision(AVR).
- **Office Software Suit**: LaTeX, Microsoft Office.

Extracurricular activities

- Active committee member of Society of Electrical Engineering at Shiraz University, 2008-2012.
- Active member and one of the founders of IEEE's Shiraz University Section (Iran). Recruiting new members and organizing events.
- Attending introductory courses in Nano-Materials, Shiraz Nano Technology Research Center.

Languages

- **English**: Fluent.
  TOEFL iBT: 94 $\rightarrow$ R.:22, L.: 23, S.: 22, W.: 27.
  GRE General CBT $\rightarrow$ V.: 140, Q.: 164, A.W.: 3.
- **Persian**: Native.
- **Arabic**: Basic Knowledge.

Personal Interests

- **Music**: Playing piano.
- **Sport**: Swimming, Mountain Climbing.

References

Dr. Mohammad Reza Zakerzadeh	Dr. Mehdi Taleh Masouleh	Dr. Alireza Keshavarz Haddad
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