



# Pourya Shahverdi

## Curriculum Vitae/Resume

### Education

2013–Present **MSc in Mechatronics Engineering**, QIAU: Qazvin Islamic Azad University, Qazvin, Iran.

2008–2012 **BSc in Robotics Engineering**, HUT: Hamedan University of Technology, Hamedan, Iran.

### Master thesis

title *Imitation of Human's Motion by a NAO Humanoid Robot*

supervisors Dr. Mehdi Tale Masouleh

description A NAO humanoid robot is going to imitate human's motion considering dynamic balance. A Microsoft Kinect, captures the human's motion and this motion will be implemented on the robot under a ROS -Robot Operating System- framework.

### Bachelor Studies

title *A Review on Dynamic Balance and Push Recovery of the Humanoid Robots*

supervisors Dr. Behnam Miripour Fard

### Experience

#### Vocational

2011–Present **Research Assistant**, TaarLab: Human-Robot Interaction Laboratory, Tehran.

Interested in: Humanoid Robot - Junior Robotics - Industrial Automation

Detailed activities and achievements:

- Patent: Design, development and dynamic simulation of a fully-decoupled 3-DOF parallel manipulator with 3-PRRR limb structure based on "Tripteron";
  - Driving AC-Servo Motors of the Robot and Developing of a GUI (Graphical User Interface) for Communication Using MODBUS Protocol and Qt-Creator IDE Under Linux OS.
- Robocup:
  - First Place in Demonstration League - IranOpen 2014;
  - Third Place in Junior Rescue League (as Mentor) - IranOpen 2014;
  - Participation in Junior Rescue League (as Mentor) - Robocup, Brazil 2014;
- Studies on Dynamic Balance and Push Recovery of Humanoid Robots;

TaarLab: Human-Robot Interaction Laboratory, University of Tehran, Iran

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- 2013–2015 **Research Assistant**, *MRL-Humanoid*, QIAU-MRL: Mechatronics Research Lab.  
 Pioneer of the Humanoid Walking Team
- Robocup
    - Participation in Humanoid League - Robocup, Brazil 2014;
    - Participation in Humanoid League - IranOpen 2015;

### Miscellaneous

- 2009–2014 **RoboCup Teacher**, *NODET: National Organization for Development of Exceptional Talents and other schools*, Iran.  
 Recording Several Honors in National Robotics Competitions as Leadership of the Junior Teams at NODET Schools and Others as:
- Allame Helli (NODET)
  - Farzanegan (NODET)
  - Shahid Soltani (NODET)
  - Manzoumeh Kherad Institute
  - Kavosh Robotic Team
    - Participation in Junior Rescue League (As Mentor) - Robocup, Netherlands 2013;
  - Others:
    - Teaching of the Designing and Manufacturing of a RC-Hovercraft;
- 2009 **Head of the Scientific Associations Administrators**, *Hamedan University of Technology*, Iran.
- 2008–2009 **Founder and Administrator of the Robotics Science Association**, *Hamedan University of Technology*, Iran.

### Languages

Persian	<b>Native</b>	
English	<b>Good</b>	<i>Pre TOEFL</i>
Turkish	<b>So-so</b>	<i>Speaking</i>
Arabic	<b>So-so</b>	<i>Reading</i>

### Skills

CAD-CAM	SolidWorks, AutoCAD, Catia	Analysis	ODE: Open Dynamic Engine, Adams, Working Model
Electronics	Proteus, Altium Designer, PSpice	Controllers	AVR, Lego, PLC
Programming	C, Matlab, C++, Python, Mathematica, Maple	Rapid Prot...	HIL: Hardware in the Loop, Arduino, SBC: Raspberry Pie-Odroid
Robotics	ROS, Webots, Choregraphe	Computer	Linux, git, LaTeX, Microsoft Office, Photoshop, CorelDRAW

### Academic Teaching Experiences

- Rapid Prototyping of computer based systems - As assistant - University of Tehran - 2015
- Robotics - For robotics association members - Hamedan University of Technology - 2012
- Physics of Mechanics - As assistant - Hamedan University of Technology - 2008  
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## Interests

- Robotics Humanoid Robots - Virtual Reality - Human and Robot Interaction - Mobile Robots  
- Junior Robotics
- Management Executive Management
- Teaching I love teaching robotics and mechanics sciences

## Hobbies

- Shajarian Listening to the Most Famous Persian Traditional Singer "Ostad Shajarian"
- Santoor Playing Iranian Traditional Instruments
- Basketball Playing Basketball as My Favorite Sport
- Game Expert in Counter Strike, Computer Game

## References

### Name

- Dr. Mehdi Tale Masouleh
- Dr. Behnam Miripour Fard
- Dr. Davood Naderi
- Dr. Majid Kazzazi
- Dr. Khalil Aalipour
- Head of TaarLab and Professor at University of Tehran
- Professor at Hamedan University of Technology
- Professor at Bu-Ali Sina University-Hamedan
- Vice President of Student at Hamedan University of Technology
- Professor at University of Tehran and Former Head of MRL-Humanoid:Mechanics

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