

# Mohammad Javadi

## Curriculum Vitae

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### Research Interests

- Machine Vision
- Deep Learning
- Machine Learning
- Image Processing
- Robotics

### Education

- 2013–2017 **Bachelor Of Technology In Computer Science And Eng,**  
(expected) *Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran.*
- 2009–2012 **Diploma in Mathematics and Physics,** *AllameHelli-2 HighSchool, Tehran, Iran.*

### Research Experience

- April 2014 – Present **Research Assistant,** *Humanoid Robotic Laboratory in Amirkabir Robotic Center(ARC), Tehran, Iran*  
*Supervisors: Prof. Mohsen Bahrami, Prof. Jacky Baltes, Prof. Saeed shiry, Dr. Soroush Sadeghnejad*  
*\*AUT-UofM Humanoid Robotic team(Joint team with Snobots from University of Manitoba)*  
*Research on object detection and modeling, robot localization based on Customized ROS Framework, for AUT-UofM(AUTMan) appeared in International Competitions and Conferences.*

### Teaching Experience

- Fall 2016 **Teaching Assistant,** *Operating Systems , Dr. Taheri,*  
*Computer Engineering department, Amirkabir University of technology.*
- Spring 2015 **Teaching Assistant,** *Advanced Programming (JAVA), Dr. Pourvatan,*  
*Computer Engineering department, Amirkabir University of technology.*

### Work Experience

- October,2015– **Machine Vision Developer,** *PAYESH COMPANY, Fatemi st, Tehran, Iran.*
- February,2016 *Machine Vision Development for urban traffic camera's.*
- March 2016– **Mobile Application Developer,** *HIRAD COMPANY, Amirkabir Science & Technology Center, Tehran, Iran.*
- January,2017 *Mobile Application Development for home automation.*

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## Honor and Awards

- July 2016 **1th place** of Robocup Humanoid Teen Size League - Technical Challenge  
International Robocup Competiotion, Leipzig, Germany
- April 2016 **1th place** of Robocup Humanoid Teen Size League - Soccer Challange  
Iranopen Robocup Competition, Tehran, Iran
- July 2015 **2th place** of Robocup Humanoid Teen Size League - Technical Challenge  
International Robocup Competition, Hefei, China
- July 2015 **3th place** of Robocup Humanoid Teen size league - Soccer Challange  
International Robocup Competition, Hefei, China
- April 2015 **1th place** of Robocup Humanoid Teen size humanoid league - Technical Challange  
Iranopen Robocup Competition, Tehran, Iran
- July 2013 **Nationwide University Entrance Exam 2013.** Ranked in the top 0.002% among  
all applicants **ranked 770.**(out of 300000+ participants)

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## Projects

- Spring 2016 **Humanoid Localization**, implementation of Particle Filter and MonteCarlo  
method's for Humanoid Robot Localization in soccer field, AUTMan Humanoid  
Robotic Team.
- Winter 2016 **Humanoid Vision System**, detection and recognition of objects in soccer field  
using MachineLearning Algorithm's, AUTMan Humanoid Robotic Team.
- Fall 2015 **Process Migration**, implementation of process migration in XV6 Operating System,  
kernel and userspace programming, Operating Systems courses final project.
- Fall 2014 - **Humanoid Vision System**, implementation of base code for Vision System of  
Spring 2015 Humanoid Robot, AUT-UofM Humanoid Robotic Team.
- Fall 2014 **Huffman coding**, implementation of Huffman as an entropy encoding algorithm  
used for lossless data compression. Data structures & algorithms courses final  
project

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## Volunteer Experience & Position of Responsibility

- 2015 lecturer and Member of 8th Linux Festival Organization team
- 2014 lecturer and Member of 7th Linux Festival Organization team

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## Languages

- Persian Mother Tongue
- English Moderate
- Turkish Fluent  
(Azeri)
- Arabic Moderate

## Technical skills

Programming Languages	C, C++, Qt, Java, Python, Matlab
Operating Systems	Linux, Windows, Macintosh
Tools,	Expert in: Linux, ROS, Git, OpenCV
Frameworks	Familiar with: Caffe.