Mahdi Taherahmadi

Curriculum Vitae

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Research Interests

- Deep Learning
- Convolutional Neural Networks
- General Image Classification
- Cognitive Robotics
- Philosophy of Mind

Education

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

Research Experience

March,2016– Present	**Head Software Developer**, *Team S.O.S. vr*, Cognitive Robotics Lab, Computer Engineering department, Amirkabir University of technology. RoboCup Rescue Virtual Robot competition. based on ROS Framework. Involving SLAM, Robot Navigation, Human Recognition, Multi Agent Cooperation & 3D Simulation fields. http://sosvr.github.io
October,2015– Present	**Research assistant**, *Cognitive Robotics Lab*, Computer Engineering department, Amirkabir University of technology.
July,2015– Present	**Research assistant**, *CNN group*, Computer Engineering department, Amirkabir University of technology. Convolutional Neural Networks With Attention Layers implementation with Theano framework, Based on GPU . http://ceit.aut.ac.ir/cnngroup
July,2015– March,2016	**Software Developer**, *IMAV team*, electrical engineering department, Amirkabir University of technology. Image processing, shape recognition, real time object tracking, quadcopter UAV Simulation
July,2013– Sept,2014	**Software Developer**, AUT ROBOTICS RESEARCH CENTER (ARC), Tehran, Iran. Member of AUTMAN Humanoid Robotic Team, Cognition section, monte carlo Localization Development

Teaching Experience

Spring 2016	**Teaching Assistant**, *Engineering Statistics*, Dr. AmirHaery, Computer Engineering department, Amirkabir University of technology.

Spring 2016	**Teaching Assistant**, *Discrete Structures*, Dr. Fallah, Computer Engineering department, Amirkabir University of technology.
Fall 2015	**Teaching Assistant**, *ROS (Robot Operating System) Framework and Linux prerequisites*, Dr. AhmadiPajouh, Medical Engineering department, Amirkabir University of technology.
Fall 2015	**Teaching Assistant**, *Data Structures & Algorithms* , Dr. Dehghan, Computer Engineering department, Amirkabir University of technology.
Fall 2015	**Teaching Assistant**, *Principles of Programming Languages (C)*, Dr. Shiry, Computer Engineering department, Amirkabir University of technology.
Spring 2015	**Teaching Assistant**, *Advanced Programming (JAVA)*, Dr. Pourvatan, Computer Engineering department, Amirkabir University of technology.
Fall 2014	**Teaching Assistant**, *Principles of Programming Languages (C)*, Dr. Shiry, Computer Engineering department, Amirkabir University of technology.

Work Experience

July,2015– October,2015	**Back-End Developer**, ZooDFood Company, IIG *(Internet Investments Group)*, Vanak sq, Tehran. Python, JS, PHP, Symfony, Git, Redmine.
August,2013– December,2014	**Front-End Developer & Designer**, RAPNA, Roshd Science & Technology Center, Tehran. HTML, CSS, JS, WordPress, Illustrator, Git.

Achievements

RoboCup 2016	**Third place** of Rescue Simulation Virtual Robot league, Leipzig, Germany
RoboCup 2015	**Second place** of technical challenge at Teen size humanoid league, Hefei, China
RoboCup 2015	**Third place** of Soccer challenge at Teen size humanoid league, Hefei, China
2013	**Nationwide University Entrance Exam 2013**. Ranked in the top 0.5% among all applicants **ranked 1162**.(out of 300000+ participants)

Projects

Spring 2016	**S.O.S. vr Base Code** Implementation of Base code and Related Components, ROS modules, launch files and Robot Models for RoboCup Rescue Virtual Robot Competition simulated in GAZEBO environment and basd on ROS framework http://SOSvr.github.io
Fall 2015	**Ice-Fire AI Challenge** Implementation of a Multi-agent Player Algorithm For Ice-Fire game artificial intelligence Challenge Held at Sharif University of Technology
Spring 2015	**Motion Planner** implementation of graph based shortest path and motion planner using A* algorithm. Design Algorithm coures final project

fall 2014	**Huffman coding** implementation of Huffman as an entropy encoding algorithm used for lossless data compression. Data structures & algorithms coures final project
Summer 2014	**NikroComputer Saipa ErgoBan (Saipa Motor Corporation)** data base & data analysis client desktop application, writen in java, powered by students of AUT, Ahamd Asadi, Saeid Dadkhah, Sajjad Rahnama, Taher Ahmadi Licenced by RAPNA Co.(RAPNA.net)
spring 2014	**Joumoung (The Strategy Game)** Developed a Simple Strategy Game Using Java GUI. Advanced programming coures final project
Fall 2013	**Assembler** Developed a Simple Assembler which generates the output (assembly code) regarding to a Simplified C program as a input. Principles of programming coures final project

Volunteer Experience & Position of Responsibility

2016	**Leader** of Team S.O.S vr RoboCup Rescue Virtual Robot Competition Second Place.
2016	Presenter at 8th Linux Festival - Cuda, Caffe, ROS & Docker https://linuxfest.ir/
2016	lecturer and Member of 8th Linux Festival Organization team
2015	lecturer and Member of 7th Linux Festival Organization team
2015	**Founder** of Cognitive Robotics Lab, Computer Engineering department, Amirkabir University of technology
2013-2015	Editor at Pouyesh magazine, CEIT students association
2014	Chief Editor of 0&1 magazine, CEIT Students Scientific Chapter

Languages

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

Technical skills

Languages	Expert in: C, C++(STL), Java Familiar with: Python, Matlab.
Tools, Frameworks & Operating Systems	Expert in: Linux, ROS, Git Familiar with: numpy, scikit, matplotlib, Theano, Blocks, Caffe, OpenCV.