



Curriculum Vitae

Amir Sadeghi

6 June 2015

Education

- **Diploma** (2004-2006)
 - Computer Science, Chamran High School
 - GPA: 17.10/20
 - Project: Design an Automated Long Vehicle Car Weighting System
 - Project Score: 19/20
 - Rank: 1st out of 34
- **Master of Arts** (2007-2010)
 - Computer Science, Semnan Technical College
 - GPA: 13.04/20
 - Project: Design and Implementation of Intelligent Testing System for Semnan's Education Administration
 - Project Score: 17/20
- **Bachelor Of Science (BSc)**(2010-2012)
 - Software Engineering, Shahrood Non-Benefit University
 - GPA: 18.43/20
 - Thesis: Persian Sign Language Recognition with RGB-D Camera
 - Thesis Score: 20/20
 - Rank: 1st out of 65
- **Master Of Science (MSc)** (2013)
 - Artificial Intelligence & Robotic, Rouzbahan University of Sari
 - GPA: 17.01/20
 - Thesis: Design a New Autopilot Control System for Intelligent UAV
 - Seminar Score: 20/20

Scholarships

- **From University of Florida**
 - Number: 7031-1645/086u
 - Date: 04/14/2008
- **From Athabasca University of Canada**
 - Number: 2817633
 - Date: 03/01/2008



Teaching Experiences

۱. Robotic, Semnan Technical College, Iran (2007-2008)
۲. Visual Basic Programming, MOF Academy, Shahrood, Semnan, Iran (2005-2008)
۳. C# Programming, MOF Academy, Shahrood, Semnan, Iran (2006-2008)
۴. VB.NET Programming, MOF Academy, Shahrood, Semnan, Iran (2006-2008)
۵. ASP.NET, MOF Academy, Shahrood, Semnan, Iran (2008)
۶. C++ Programming, MOF Academy, Shahrood, Semnan, Iran (2007-2008)
۷. Pascal Programming, MOF Academy, Shahrood, Semnan, Iran (2005-2008)
۸. Mobile Programming (Midlet Pascal) , MOF Academy, Shahrood, Semnan, Iran (2008)
۹. Assembly Programming, MOF Academy, Shahrood, Semnan, Iran (2005-2008)
۱۰. HTML, MOF Academy, Shahrood, Semnan, Iran (2005-2008)
۱۱. OOP in JAVA, MOF Academy, Shahrood, Semnan, Iran (2006-2008)
۱۲. AVR Programming, MOF Academy, Shahrood, Semnan, Iran (2008)
۱۳. Basics of MATLAB, MOF Academy, Shahrood, Semnan, Iran (2008)
۱۴. SQL Server 2005, MOF Academy, Shahrood, Semnan, Iran (2007)
۱۵. Flash Animating, MOF Academy, Shahrood, Semnan, Iran (2005-2008)
۱۶. Hack & Cracking, MOF Academy, Shahrood, Semnan, Iran (2005)
۱۷. Basics of Computer Networking, MOF Academy, Shahrood, Semnan, Iran (2008)
۱۸. Computer Hardware, MOF Academy, Shahrood, Semnan, Iran (2005-2008)
۱۹. PC Interfacing, MOF Academy, Shahrood, Semnan, Iran (2008)
۲۰. Basics of Linux, MOF Academy, Shahrood, Semnan, Iran (2007)
۲۱. Animations (Flash Mx), Shahvar Academy, Shahrood, Semnan, Iran (2006)
۲۲. HTML Programming, Shahvar Academy, Shahrood, Semnan, Iran (2006-2008)
۲۳. Wireless Networking, MOF Academy, Shahrood, Semnan, Iran (2009)
۲۴. VSAT Networking, 3PK.Co, Shahrood, Semnan, Iran(2010-2011)
۲۵. Image Processing, 3PK.Co, Shahrood, Semnan, Iran(2010-2011)
۲۶. C# Programming, 3PK.Co, Shahrood, Semnan, Iran(2010-2011)
۲۷. OOP in JAVA, 3PK.Co, Shahrood, Semnan, Iran(2010-2011)
۲۸. ASP.NET Web Designing, 3PK.Co, Shahrood, Semnan, Iran(2010-2011)
۲۹. ADO.NET, 3PK.Co, Shahrood, Semnan, Iran(2010-2011)
۳۰. Wireless Networking, 3PK.Co, Shahrood, Semnan, Iran(2010-2011)
۳۱. Networking, 3PK.Co, Shahrood, Semnan, Iran(2010-2011)
۳۲. And Many other...

Projects

- **Facial Expression Recognition By Fuzzy**
 - Platform: Matlab
 - Accuracy: 96.03%
- **Facial Expression Recognition By Neural Network**
 - Platform: Matlab, Weka
 - Accuracy: 97.4%
- **Facial Expression Recognition By Random Forest Algorithm**
 - Platform: Matlab, Weka
 - Accuracy: 97.55%
- **Fuzzy Car Control Simulation**
 - Platform: Matlab
 - Accuracy: 85%
- **License Plate Recognition**
 - Platform: Matlab, C#
 - Accuracy: 99.4% For Restricted Dataset
- **Face Classification with SVM Algorithm**
 - Platform: Matlab
 - Accuracy: 98%
- **Automatic Age Estimator From Facial Aging Pattern**
 - Platform: Matlab
 - Accuracy: 88%
- **Persian Handwritten Digit OCR**
 - Platform: C#
 - Accuracy: 96.5%
- **Video Forgery Detection Using Temporal Forensics and Anti-Forensics**
 - Platform: Matlab, Weka
 - Accuracy: in Process
- **Design a New Method for Intelligent UAV Control**
 - Platform: Matlab, C#
 - Accuracy: in Process

Papers

- Persian Sign Language Recognition with RGB-D Sensors (Submitted)
- Facial Expression Recognition Using MLP Neural Network (Submitted)
- Facial Expression Recognition with RF Classification (Submitted)
- Intelligent Transportation Systems , A Survey (Submitted)
- UAV Autopilot Control Systems, A Survey (Submitted)
- A New Robust Method for Control the UAVs (in Process)

Books

- Productive Programming (in Translation and Compilation)
- RGB-D Sensors, From A to Z (in Compilation)

OFF-Campus Projects Involved

- **WEB Application for 1st National ACM Competition**
 - Employer: FREE (2013)
 - Role: Graphic Designer, Web Developer
 - Technology: Asp.Net, JQuery, SQL Server 2008, ADO.NET
 - Contribution: 100%
 - Link: acm.shahroodut.ac.ir
- **WEB Application for 2nd North-East ACM Competition**
 - Employer: FREE (2012)
 - Role: Graphic Designer, Web Developer
 - Technology: PHP, MySQL
 - Contribution: 100%
- **WEB Application for main Semnan's Rail Road**
 - Employer: FREE (2012)
 - Role: Graphic Designer, Web Developer
 - Technology: ASP.NET, SQL Server 2008, ADO.NET
 - Contribution: 90%
- **RFID Based Application for Automatic Parking System**
 - Employer: 3PK.Co (2012)
 - Role: Project Manager, Programmer, Electronic Designer
 - Technology: AVR Micro Controller, C#, Interface
 - Contribution: 90%
- **Automation Program for Noor Gostaran Company**
 - Employer: 3PK.Co (2014)
 - Role: Project Manager, Programmer
 - Technology: Asp.Net, Ajax, SQL Server 2012, ADO.NET, LinQ
 - Contribution: 100%
- **Hardware Based Server Paralleling Device for Control the Satellite**
 - Employer: Defense Ministry
 - Role: Programmer, Electronic Designer
 - Technology: C#, Assembly, ARM, Code Vision
 - Contribution: 90%
- **Container Scanner with X-Ray Sensor Network**
 - Employer: Defense Ministry (Sepand Institute)
 - Role: Programmer
 - Technology: C#, Assembly, Matlab, C++, DirectX SDK
 - Contribution: 90%
- **Material Hydrophilic Determiner**
 - Employer: Defense Ministry (Sepand Institute)
 - Role: Programmer
 - Technology: Matlab, C#
 - Contribution: 60%
- **Shoe affect Analysis in Running and Footsal**
 - Employer: Shahid Beheshti University
 - Role: Programmer, Electronic Designer
 - Technology: Matlab, C#, Code Vision
 - Contribution: 70%



- **Private CMS for Online Toy Shop**
 - Employer: 3PK.Co (2012)
 - Role: Graphic Designer, Web Developer
 - Technology: Asp.Net, Ajax, SQL Server 2008, ADO.NET
 - Contribution: 100%
- **WEB Application for Clinic inning Reservation**
 - Employer: 3PK.Co (2012)
 - Role: Graphic Designer, Web Developer
 - Technology: Asp.Net, JQuery, Ajax, SQL Server 2008, ADO.NET
 - Contribution: 100%
- **Private CMS for Restaurant Delivery System**
 - Employer: 3PK.Co (2012)
 - Role: Graphic Designer, Web Developer
 - Technology: Asp.Net, Ajax, SQL Server 2008, ADO.NET
 - Contribution: 100%
- **Private CMS for OrdyBehesht Translation Organization**
 - Employer: Free (2014)
 - Role: Graphic Designer, Web Developer
 - Technology: Asp.Net, Ajax, SQL Server 2012, ADO.NET
 - Contribution: 100%
- **Fixed Vehicle Speed Recognition**
 - Employer: NRP.CO (2007-2009)
 - Role: Programmer
 - Technology: Matlab, C#, .NET Remoting, EMGUCV
 - Contribution: 20%
- **Urban Search Robot**
 - Employer: NRP.CO (2010)
 - Role: Electrical Designer
 - Contribution: 20%
- **Office Automation Software - WIN Application**
 - Employer: 3PK.Co (2008-2010)
 - Role: Project Manager, Programmer
 - Contribution: 40%
- **Home Automation System**
 - Employer: 3PK.Co (2008-2010)
 - Role: Project Manager, Programmer
 - Contribution: 80%
- **Multi-Platform Application for Main Semnan's Educational Administration**
 - Description: Intelligent System for Teacher Recruitment (in Province)
 - Employer: FREE (2008)
 - Role: Web Designer, Programmer
 - Technology: Asp.Net, C#, SQL Server 2008, ADO.NET, Matlab
 - Contribution: 100%
- **Web Application for Semnan Free university**
 - Employer: Novin Pardazeshgar (2007)
 - Role: web Developer
 - Contribution: 20%

- **Application for Retired Office of main Semnan's Rail Road**
 - Employer: 3PK.Co (2007)
 - Role: Project Manager, Programmer
 - Contribution: 100%
- **Office Automation Program for AYANDEGAN Office**
 - Employer: 3PK.Co (2006)
 - Role: Project Manager, Programmer
 - Contribution: 100%
- Human base light controller
- Speech Based IVR System
- Intelligent chess game (Computer with Player)
- And ...

Skills

- Web Development

○ ASP.NET	Expert	○ PHP	Good
○ HTML	Good	○ HTML 5	So So
○ AJAX	Good	○ CSS	Good
○ JQuery	So So	○ Silver Light	So So

- Desktop Computers Programming Language

○ C#.NET	Expert	○ C/C++	Good
○ VB.NET	Expert	○ R	Good
○ MATLAB	Expert	○ Prolog	Good
○ Weka	Expert	○ Delphi	Good
○ EMGUCV	Good	○ Assembly	Good
○ DirectX SDK	Good	○ Java	So So

- Embedded Systems Programming Language

- Android (So So)
- Windows CE (Good)
- Java-Midlet Pascal (Good)
- ARM7 & ARM9 Microprocessor(So So)
- AVR Microcontroller
 - Code Vision (Good) Bascom (Expert)
- PIC Microcontroller (Good)

- Database

○ SQL Server	Expert	○ My SQL	Expert
○ Oracle	So So	○ Access	Expert

- Data Access Technologies

○ ADO.NET	Expert	○ LinQ	So So
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- Electronic Software

○ Proteus	Expert	○ Protel	Good
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- Network

○ Wired And Wireless Networking	○ VSAT Networking
○ Cisco Device Configuration	○ Microtik Device Configuration
○ Windows Server 2003 and 2008	○ Citrix Application Server
○ VMware Virtualization	○ IBS Server
○ VPN Connection Server	○ Sib Accounting System
○ Cisco Packet Tracer	○ Cisco Network Visualizer

- Other

○ Adobe Photoshop	○ Corel Draw
○ Rational Rose	○ Arena
○ Lab View	○ Visio
○ Microsoft Office	

Work Experiences

- Fanap, ITS and IT Rescue Agent in Shahrood (From 2014)
- 3PK.Co, Manager (From 2009)
- Golden Apple-Co, Programming manager (2013)
- Rasa System-Co, R&D Manager (2010-2012)
- MOF Academy (2004-2008)
- Shahvar Scientific Academy (2006)
- NRP.Co, Line Manager & Programmer of Speed detection system (2007-2009)

Manufactured Industrial or Laboratory Robots

- **Industrial**
 - Industrial Quality Controller Robot for Tile Factory (2007-2008), CNC Drill (2010), City Robot (Light Pole Repainting) (2006), Electrical Board Printer (2009).
- **Research's Robot**
 - Rescue Robot (2007-2013), Painter Robot (2008), Simulate the Structure of People Hand – Demo (2008), DE miner Robot (2008), Chess Player Robot - Demo (2009), Fighter Robot (2009), Snake Robot (2009), Line Follower Robot (2005), Object Separator Robot – Demo (2010), Shooter Robot (2009), Human Follower Robot (2010), Labyrinth Robot (2009), Light Follower Robot (2006), Maze Solver Robot (2006), Spider Robot (2009-2010), Ascendant Glass Cleaner Robot – Demo (2007-2008), Magnetic Line Follower (2007), Micro mouse Robot (2007).
- **Flying Robot**
 - Quad Rotor Flying Robot (2009-2012)



Evidence

- ICDL Skill with Grade 99.5 of 100 (2008)
- Hardware Repairing Skill with Grade 85 of 100 (2008)

Fields of Interest

- **Intelligent System**
 - Neural Network, Classification Algorithms, Machine Vision, Evolutionary Algorithm, Image Processing (Satellite, Biomedical & etc.), Robotics, Intelligent Cars, Airplane, UAV & Multi Rotor Copters.
- **Computer Network**
 - VSAT, Wireless, Wired, Fiber.
- **Electronic**
 - AVR, PIC, ARM, Digital Circuit Design, PC Interface, PCB Design, Analog Electronic.
- **Programming**
 - Mobile, Web, Windows, Network Programming, Embedded Systems.
- **Software Cracking and ActiveX CD Locks Crack**

Awards

- 4th Place, Technical Challenge for Real Rescue Robot, Iran Open (2008)
- up to semi semi Final, Iran Open (2009-2012)
- 1st place, Province Khwarizmi Competition (2008)
- 6th place, National Khwarizmi Competition (2008)
- 1st Place, Best Student's Club, Momtazin VA Mobtakerin Competition (2008)
- 1st Place, City Robot, Shahid Chamran Paper Suit (2008)
- 3rd Place, Persian OCR, Shahid Chamran Paper Suit (2008)
- Appreciation Project, Chess Project, Shahid Chamran Paper Suit (2008)
- 1st Place, Single Challenge, SCACM Programming Cup (2007)
- 2nd Place, Team Challenge, SCACM Programming Cup (2007)
- 1st Place, Line Follower Robots, SCROBOCUP (2008)
- 1st Place, Free Challenge with Real Rescue Robot, SCROBOCUP (2008)
- And Many other...

Seminars

- **Semnan Technical College, Iran (2007)**
 - Title: Software Cracking
- **Shamsipour Technical College, Tehran, Iran (2007)**
 - Title: Neural Networks
- **Shahvar Scientific Academy, Shahrood, Semnan, Iran (2006)**
 - Title: Basics of Robotic



- **Shahid Rajayi University, Tehran, Iran (2008)**
 - Title: Persian OCR
- **Semnan University, Semnan, Iran (2009)**
 - Title: City Robot
- **Semnan University, Semnan, Iran (2009)**
 - Title: Chess Program

Membrane

- Site Master of Third National SUT ACM (2013)
- Site Master and Technical Member of Second North-East SUT ACM (2012)
- Master of 3PK.Co in Shahrood (from 2009)
- Programming Manager in Golden Apple Co (from 2012)
- Master of "3PK" Robotic Team (2009-2013)
- Master of "BSC" Robotic Team (2008)
- Master of "AS Robotic" Robotic Team (2007)
- Master of Student's Robotic Club in Semnan Technical College (2007-2009)
- Master of Student's Computer Club in Semnan Technical College (2007-2009)
- Master of Student's Brilliance Club in Semnan Technical College (2007)
- Member of Semnan's Young Governor Advisor Club
- Member of Student's Electronic Club in Semnan Technical College (2007)
- And a few others...

T.V and Radio Interview

- With Shetab Telecast in My Home (2008)
- With Semnan Telecast in Semnan's Studio (2010)
- With Dr. Family in Semnan's Studio (2010)
- With Dr. Ali Akbar Jalali in Semnan's Studio (2011)
- Audio Interview with Tehran's "Shahr Radio" (2010)
- Telephony interview With Shetab Telecast (2009)
- Telephony Interview with Province's Young Radio (2010)
- Telephony Interview with Province's Radio (2011)

Other Ability

- Sports
 - 1'st don, Black Belt in Taekwondo POMSE
 - Archery (تیر اندازی با کمان).
 - Cycle Tourism
 - Mountaineering
 - Rock Climbing
- Mind Challenge
 - Low time Rubik Cube Solving
 - Sudoku Solving
 - Domino
 - Hanoi Towers
 - 1000 Pcs Puzzle
- Arts
 - Freelance Photography
 - Professional Sudatorist (معرق کاری)
 - Fertilist (منبت کاری)
 - Professional Gratist (مشبک کاری)
 - Quill Driver (قلمزنی)
 - Turner (تراشکاری)
 - Welder (جوشکاری)

Personal Information

Last Name: Sadeghi
First Name: Amir
Gender: Male
Date of Birth: 18 August
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