

Rasoul MohammadiNasiri



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Address: Shuride dormitory, Uyari Alley, Salehi St.
Jenah Highway, Tehran, Iran.
Birth: 1985/3

Education:

2007-2010 (Expected) Master of Science(MS) in computer engineering in Artificial Intelligence, Computer Engineering Department of Sharif University of Technology, Tehran, Iran, GPA: 18.31/20.
2003-2007 Bachelor of Science (BS) in Computer Engineering (Hardware), Computer Engineering Department Sharif University of Technology, Tehran, Iran, GPA: 17.07/20
2002-2003 Pre-University, Shahid Ghoddsi Pre-University Center, a branch of NODET (National Organization for Developing Exceptional Talents), Qom, Iran, GPA: 19.13/20
1998-2002 High School Diploma, Shahid Ghoddsi High School, a branch of NODET, Qom, Iran, GPA: 18.5/20

Honors and Awards:

Selected for Sharif University of Technology Artificial Intelligence M.Sc., as one of 2 talented student and exempted from notion-wide graduate studies examination, Fall 2007, Tehran, Iran.
Ranked 1th among Artificial Intelligence student in until Spring 2008.
Ranked 2th between B.Sc student hardware engineering in Computer Engineering department, Sharif University of technology.
Ranked 78th among more than 50,000 participants and 230th among more than 300,000 participants in the national university entrance exam (known as konkoor), 2003.
Ranked 3th among more than 4000 participant in national university entrance exam in regional ranking of Qom city, Iran.

Professional Experience:

2009/9-11 Cooperation as an advisor to "Narm Negar Aria" Co. "Qom University Technology Incubator Center", in OCR algorithm with application on License Plate Recognition(LPR) of cars in outdoor environment.
2007/7-2009/5 Research Assistant for design and developing signal processing algorithms based on FPGA as a member of digital signal processing group, [Rastafann Co.](#)
Design and developing digital signal processing unit for signal processing in high speed more than 100 MHz of processing.

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- 7/2007 Participate in FPGA Contest, Computer Engineering department, Sharif University.
- 1/2007 Take part in GSM Workshop of Mobile Communication Center in Sharif University.
The main topics that discussed this workshop was GSM network communication protocols, infrastructures, authentication in GSM, encryption of data.
- 5/2006 – Research Assistant for developing the Optical Mark Reader(OMR), Tolue Inc, Tehran, Iran.
- 5/2006 Design an innovative algorithm for reading marks in multiple choice exams.
- 8/2005 – Developer for J2EE applications, Shahid Rezaee Research Institute, Sharif University of Technology, Iran, Tehran.
- 5/2006 Design web page in JSF technology and design portal for student cooperation network site.

Research Experience:

- 2010/1-now Stereo Matching Algorithm and 3D Reconstruction of Scene Model in corporation with [CITLab of GeorgiaTech University](#).
- 2009/1-3 MR Image inhomogeneity Correction using Legendre Polynomial and Genetic Algorithms, Sharif University of Technology.
- 2008/7 Implementing application for Image segmentation using Self Organize Map neural networks
- 2008/6 Optical Character Recognition (OCR), using neural network models such as ART and Cascade Correlation.
- 2008/2-3 Implementing Graph Planning as an advanced planner.
- 2008/1 Designing fuzzy controller for CADET system as controller, fuzzy course.
- 2007/3-6 Solution for Bluetooth connection using microcontrollers
- 2007/3-9 Implementing Application for 3D-motion estimation of moving object in 3D Euclidean space. Submitted as BS thesis.
- 2006/5-8 Designing "KHANA" as the solution of Optical Mark Reader (OMR), in correction of multiple choice exams. Tolue Inc.
- 2006/6 Designing 32Instruction RISC microprocessor, VLSI course project.
- 2006/5 Intelligent Traffic Control Light using 8051 microcontroller.

Teaching Experience:

- Spring 2009 Teacher Assistant of "Digital Video Processing" course as head TA.
- Fall 2008 Teacher Assistant of "Machine Learning" Course under supervision of Dr. Hamid Beigy.
- Fall 2006 Teacher Assistant of "Multimedia" Course in computer engineering department of Sharif University of Technology

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Research Interest:

- Computer Vision, Cognitive Vision and Cognitive Science
- Image and Video processing
- Machine Learning
- Fuzzy systems
- Neural network
- Multimedia ,Video analysis and Object Detection
- Computer architecture and interconnection network

Skills:

Software: MATLAB, SPICE, Modelsim, LEdit, Leonardo, Proteous, IDEA.

Hardware: Microprocessor (8085, 8086), Microcontroller (8051).

Programming Language: Java, C/C++, Pascal, VB .NET, C# .NET, Assembly coding.

General: Experiment to work with Intel OpenCV library as a most famous computer vision library.

Official: Expert in working with Microsoft Office, OneNote, Windows, Linux.

Publication & Researches:

R. M. Nasiri, E. Vaziri B., A. Taheri Najaf Abadi, F. Forhadi, Controversial Aspects of Design a Control System for Testing Flexible Foams, submitted to Int. Conf. Electrical Engineering, Isfahan, Iran, 2010.

Rasoul Mohammadi Nasiri, Shohreh Kasaei, Motion Segmentation and Shadow Removal Using Improved Gaussian Mixture Model, submitted to Int. Conf. Electrical Engineering, Isfahan, Iran, 2010.

Taheri N.A., R.M. Nasiri, E. Vaziri B., A. Ramazani S.A., Design and Manufacturing of a Foam Compressibility Tester(FCT), ISPST, Tehran, Iran, October 2009.

Amin Taheri Najaf Abadi, Rasoul Mohammadi Nasiri, Ehsan Vaziri Bami, Ahmad Ramazani Saadat Abad, Control system design for compressibility test of semi-elastic materials, International Chemical Engineering Congress & Exhibition(ICHEC), Kish Island, Iran, november 2009.

S.M.Shad, S.Maryooriad, R.M.Nasiri, Introduction to Conjugate Gradient Error Back Propagation neural networks, technical report, CE department Sharif university, Tehran, Iran, 2008.

S.M.Shad, R.M.Nasiri, Introduction to fuzzy image processing, technical report, CE department Sharif university, Tehran, Iran, 2008.

R.M.Nasiri, Motion parameter estimation in 3D Euclidean space, Thesis for Bachelor of Science degree, computer engineering, Sharif university, 2007.

R.M.Nasiri, Introduction to Spread Spectrum coding, Technical Report, computer engineering department, Sharif university, 2006.

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