


NAME

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EDUCATION

- University of Denver, School of Electrical and Computer Engineering (2013 – Present)** Denver, CO
Ph.D. Candidate in Computer Engineering, Major in Computer Vision and Robotics
- Amirkabir University of Technology - Tehran Polytechnic (2007 – 2010)** Tehran, Iran
M.Sc. in Computer Software Engineering, minored in Artificial Intelligence
- Iran University of Science and Technology (2002 – 2006)** Tehran, Iran
B.Sc. in Computer Software Engineering

EXPERIENCE

- University of Denver (Denver, CO)** 2013-presnet
Graduate Research Assistant at Computer Vision and Pattern Recognition Lab
- Mentored three students including critical thinking, problem solving skills and time management
 - Emotive lifelike robotic face: Designed and created an animation able to speak and show emotion using C#, DirectX and Microsoft XNA and projecting it into a human face-like mask with collaboration of an outside company.
 - Microsoft Kinect data collector: Implemented software in C++ using multi-threading and OpenCV to capture and compress videos and skeleton for studying of human activities.
 - Bidirectional warping of active appearance model: developed a bidirectional warping algorithm to improve generality of facial feature extraction of AAM implementing in Matlab platform.
- University of Algarve (Faro, Portugal)** 2010-2012
Graduate Research Assistant at Bioinformatics and Image Processing Lab
- Built phylogenetic trees using GPU techniques.
 - Accurate iris and eye corners extraction in high resolution images using Matlab and C++.
 - A user-friendly software to easily count anopheles egg batches: Implemented a software in Java with a friendly UI to count anopheles eggs in an image with accuracy of 92%.
- MAHFA CO (Tehran, Iran)** 2006-2007
Software Engineer and Project Manager
- Designed and implemented customized dynamic websites using ASP .Net, C#, Ajax and Microsoft SQL server for:
 - Iranian Journal of Pathology website (<http://www.ijp.iranpath.org/>)
 - Iranian Society of Pathology Website (<http://www.iranpath.org/>)
 - Annual Congress of Iranian Society of Pathology (<http://congress.iranpath.org/>)
 - Website of Ministry of Education at Tehran (<http://tehranedu.ir>)
- Fan Avaran Asre Novin CO (Tehran, Iran)** 2004-2006
Software Developer and Designer (part time)
- Asset Tracker software: Developed a software in C# .Net using .Net remoting and Microsoft SQL server database to control and analyze network resources and provide statistics.

SKILLS

- Languages: C++, C, C#, JAVA, ASP .Net, PHP, Python, OpenGL, Matlab, Object Oriented Design, HTML
- IDEs & Libraries: MS Visual Studio, Netbeans, OpenCV, AJAX, TCP/IP and Network Programming
- Operating Systems: Windows, Linux, Unix
- Database Systems: Microsoft SQL Server, MySQL

PUBLICATIONS & AWARDS

- **Author**, *An Emotive Lifelike Robotic Face for Natural Face-to-Face Communication*, ICRA 2014.
- **Graduate Teaching Assistant**, at University of Denver, ('Technology 21', 'Introduction to Mechatronics').
- **Reviewer** for Journal of Intelligent & Robotic Systems, Springer 2013.
- Ranked 47th among over 5,000 applicants in Iran's nationwide Master of Science entrance exam, Feb 2007.