Education	<ul> <li>K. N. Toosi University of Technology, Tehran, Iran</li> <li>M.Sc. degree in Biomedical Engineering 2001-2004</li> <li>M.Sc. thesis title: "Deformable Models: Enhancement, Implementation on Special DSPs and Their Application on Cardiac Image Analysis", Supervisor: Dr. Hamid Abrishami Moghaddam</li> </ul>
	(A new segmentation algorithm was developed and implemented on TMS320C6211 DSK)
	Seminar, "DSPs Application on Medical Image Processing"
	Azad Islamic University, Central Tehran Branch, Tehran, Iran
	B.Sc. degree in Electrical Engineering, Electronics 1993-1997
	B.Sc. project title: "A 2 MHz Signal Generator", Supervisor: Dr. Aziminam. (A 2MHz signal generator based on Good Will GFG8016S signal generator was designed for Afzar Azma Co).
	2007-now: Technical Manager in Mayan Communications Technology (Co-founder)
Technical	• Embedded System software and hardware design & implementation
	• Operating system design and implementation on Special Purpose DSP and FPGA boards
Experiences	Algorithm Design and SW Implementation of:
	<ul> <li>Radio Interconnection Matrix</li> </ul>
	<ul> <li>Motor Control Board for surveillance systems</li> </ul>
	<ul> <li>Locator Systems</li> </ul>
	<ul> <li>IR Thermometer using a thermal camera</li> </ul>
	<ul> <li>NTSE &amp; PAL Overlay modules</li> </ul>
	<ul> <li>Real Time Image Processing systems</li> </ul>
	<ul> <li>Real Time Visual Tracker</li> </ul>
	Real Time Image Rotation

	2001-2007: Research Manager in Sazeh Pouyesh Co.
Technical	Electronic Control Unit Project Manager in Engine Management Department
Experiences	We worked as <b>Robert Bosch GmbH</b> 's Iranian partner in Engine Management System. A localization project was also introduced to design the ECU for EF7 project.
	<ul> <li>Design and Implementation of an Industrial General Tester: An industrial functionality tester for production line to test 2000 devices per day. By simply changing the fixtures, it interfaces with more than 8 products.</li> <li>Quality Assurance Representative in R&amp;D ISO-TS 16949:2002 technical implementation assurance. Technical consultant in all project to insure compliance with APQP requirements and coordinating the cross functional team and R&amp;D design team meetings. FMAE team leader, checking project technical documents to meet the standards and customer requirements.</li> </ul>
	<ul> <li>Research and feasibility study of Mirror control unit (MCU)</li> <li>Technical manager of Power Window Controller (PWC)</li> <li>Technical manager of Engine Temperature Control Unit (TCU)</li> <li>Technical manager of Ultrasonic Reverse Distance Sensor (URS)</li> </ul>
Technical	<ul> <li>1997-2001: R&amp;D engineer in KCR (Kavoshcom Asia)</li> <li>Design Engineer in GSM WLL (Wireless Local Loop) team.</li> </ul>
	<ul> <li>Design Engineer in GSM interface design team for GSM Public Phone.</li> </ul>
Experiences	• Research and feasibility study on GPS and AVL (Automatic Vehicle Location) systems.
	<ul> <li>Upgrade board for Factory Monitoring System project (FMS) installed in 2 textile factories. The original system won 12<sup>th</sup> KHWARIZMI INTERNATIONAL AWARD</li> <li>Member of 46/49MHz Cordless design team.</li> </ul>
	• Design engineer in prototyping of Telephone Line Monitor (TLM)
	• Design of KCR webpage (first version)
	• Design and prototyping of an intelligent clock that calculated the prayer times.
	K. N. Toosi University of Technology's MVMIP Lab
Projects	• Implementation of Star Tracker on DSP.
	Sharif University of Technology's Electronic Research Center
	• Implementation of ITU Vocodec recommendations on DSP.
	Kiatel Co.
	<ul> <li>Software design and implementation of GSM interface according to GSM.07.07.</li> </ul>
Teaching Experience	Keil 7 workshop for Allameh-Helli's robotic group

Papers and Publications	• M. Takapoomanesh Baghaie, H. Abrishami Moghaddam, "Narrow banded level set model, for cardiac image segmentation", The Third Iranian Conference on Machine Vision, Image Processing and Application, Tehran University, Feb. 2005
Skills	<ul> <li>Expert in embedded system programming, DSP, FPGA, CPLD, uC, etc.</li> <li>Expert in C/C++, and VC++.</li> <li>Experienced in analog and digital hardware design.</li> <li>Expert in 8051 family, TI 2000 family, Microchip PIC, ST microcontrollers and any other microcontroller hardware and software design (assembly and C).</li> <li>Extensive C for 8051 family programming, using Keil and Franklin development tools.</li> <li>Expert in VHDL and Verilog HDL.</li> <li>Experienced in industrial PCs and instrumentations.</li> <li>Expert in DSPs (fixed and floating point) DM64, TMS320C6000 and TMS320C5000 families programming using Code Composer Studio, assembly and C.</li> <li>EE CAD software: MATLAB, PSPICE, PROTEL (Altium Designer), Altera's MAX PLUS, Xilinx's ISE, Aldec's ActiveHDL, LabView, etc.</li> <li>Experienced in automotive, military and space design standards and technologies</li> <li>Expert in MS office, Word, Excel, Project, Visio and PowerPoint and computer assembly.</li> </ul>
Languages	• Excellent command of English.
Courses and Workshops	<ul> <li>Project Management, Marketing, ISO/TS 16949:200, ISO 17000, PPAP, APQP, FMEA, POKA YOKE, 5S, Verilog HDL, VHDL, FPGA, C, C++, VC++, LabView</li> <li>Industrial PCs and Automation</li> <li>ST micro electronic workshop</li> <li>Automotive Electrical &amp; Electronic Systems</li> <li>Hybrid Electric Vehicles Engine Design</li> </ul>