

Resume

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| EDUCATION | |
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| Graduate | M.Sc. Computer Science and Engineering at Politecnico Di Milano. |
| Started | March 2015 |
| Graduation (Expected) | 2017 |
| Undergraduate | B.Sc. Computer Engineering (Hardware) at Ferdowsi University of Mashhad. |
| Graduation | May 2014 |
| GPA | 3.1/4 (15.45/20) |
| GPA (Last 63 Credit) | 3.7/4 (18.5/20) |
| RESEARCH INTERESTS | |
| | <ul style="list-style-type: none"> Embedded Systems Robotics FPGA Distributed Systems Cryptography |
| WORK AND RESEARCH EXPERIENCE | |
| March 2014 – February 2015 Developer ICT Organization, Mashhad Municipality | <ul style="list-style-type: none"> Design and implementation of single sign on (SSO) of city users using JavaEE, LDAP (unbound SSO) and MySQL. Implementation of REST web services for all functions regarding user operations in different permission levels. Write sample code on PHP and Android for SSO. |
| February 2013 – May 2014 <i>Intelligent signal and system processing for Telerobot lab</i> Researcher | <ul style="list-style-type: none"> Working on my B.Sc. Project, a general data acquisition card which collects data from 16 bit ADC channels and send them to pc with favorite OS (Linux, Mac, Windows ...). The collected data can be used in various applications like Matlab or simply be saved as raw format. Setup tools for compilation C codes for DT1304 DSP. DT1304 is a multimedia DSP for audio and video processing. Developed a C code for real-time distinguishing human skin from other parts in the real-time video using DT1304 DSP. |
| July 2013 – December 2014 Developer Intelligent Designers Company | <ul style="list-style-type: none"> Designing and implementing main control board for a Building Management System (BMS) on Cubeboard. This main controller implemented on a Linux base operating system with Java SE for embedded systems. Designing and implementing Android remote control application for above control board with maximum safety using SSL Sockets. |
| December 2011 – present Developer Masera Team | <ul style="list-style-type: none"> Developing online CMS as a team member of "masera" for commercial use. This CMS is based on PHP and MySQL PDO which can be customized according to user's needs. Designed and implemented an online contest management system for simulating ACM ICPC contests. |
| August 2009 – July 2013 Technical Assistant Robotics Research Center Ferdowsi University of Mashhad | <ul style="list-style-type: none"> Constructed MicroMouse, a robot with the ability to find its path through mazes using ARM micro-controller. |
| PUBLICATIONS | |
| Conference Posters iBAVO (PubMed Index) | <ul style="list-style-type: none"> Amirhossein Gharibi, Hamidreza Hanafi, Dr-Hamidreza Pourreza, MO Mohammad Razi Esfahani, MO Ehsa Khalili Pour, "Assessment of Blood Vessel Tortuosity and Width in Retinopathy of Prematurity Using ROPAssist". <p>More info and abstract: ROP</p> |
| SELECTED PROJECTS | |
| Cooperation in Panda | <ul style="list-style-type: none"> Add an step to the project to reduce the clock cycles by adding return statements to original block when single basic block containing an phi function exits. |
| jermy | <ul style="list-style-type: none"> A robot with the ability to find its path through mazes using ARM micro-controller. |
| Data Acquisition System | <ul style="list-style-type: none"> A general data acquisition card which collects data from 16 bit ADC channels and send them to pc with favorite OS. |
| BMS | <ul style="list-style-type: none"> Main control board for a Building Management System (BMS) on Cubeboard including wireless remote control application on Android. |
| Online CMS | <ul style="list-style-type: none"> A content management system based on PHP and MySQL PDO which can be customized according to user's need. |
| EXTRACURRICULAR ACTIVITIES | |
| July 2011 – July 2013 Educational Manager | <ul style="list-style-type: none"> Educational Manager in Robotic Research Center, Ferdowsi University of Mashhad. |
| Summer 2010 – present Member | <ul style="list-style-type: none"> Member of Programming Contests Center (ACM), Ferdowsi University of Mashhad. |
| February 2013 – present Member | <ul style="list-style-type: none"> Member of Intelligent Signal and System Processing laboratory (ISSP) of Ferdowsi University of Mashhad under supervision of Dr. H. Sadooghi Yazdi. |
| October 2013 – present Founder and Member | <ul style="list-style-type: none"> Founder of Digital Design Community with 4 other members including Dr. Yasser Sedaghat. |
| TEACHING EXPERIENCE | |
| Lecturer | <ul style="list-style-type: none"> Web Programming Designed the course material and laboratory sessions for a workshop on "Web Programming", Organized by Scientific Society of Computer Engineering Students of Ferdowsi University of Mashhad. |
| Teaching Assistant Dr. Yasser Sedaghat | <ul style="list-style-type: none"> Microprocessor Designed course projects which consisted of AVR programming (IQ, PWM ...), 8086 assembly programming and simulation using Proteus. I was also responsible of evaluating student's designs and helping them in analyzing their results. |
| HONORS | |
| Fall 2014 | <ul style="list-style-type: none"> First Place in SharifCup 2014 robotic contests, in "Machine vision: Traffic Control" field, held by Sharif University of Technology. |
| Fall 2012 | <ul style="list-style-type: none"> Ninth Place in ACM Asia Programming Contest, Sponsored by IBM, Team Certificate Individual Certificate |
| Spring 2013 | <ul style="list-style-type: none"> First Place in national PNU-OPEN 2013 robotic contests, in "War Simulator" field. |
| Fall 2012 | <ul style="list-style-type: none"> First Place in Mashhad Collegiate Programming Contest, held by Islamic Azad University of Mashhad. |
| Fall 2012 | <ul style="list-style-type: none"> Second Place in Ferdowsi Collegiate Programming Contest, held by Ferdowsi University of Mashhad. |
| July 2009 | <ul style="list-style-type: none"> Ranked among top 1% in the nation-wide university entrance exam in Mathematics and Physics Discipline, among more than 300,000 participants. |
| REMARKABLE COURSES | |
| Georgia Institute of Technology | <ul style="list-style-type: none"> Control of Mobile Robots, Grade: 94.3/100, Coursera (online course) Certificate |
| Dr. Cesana | <ul style="list-style-type: none"> Internet of Things, Grade: 29/30 |
| Dr. Abrishami | <ul style="list-style-type: none"> Distributed Systems, Grade: 16/20 |
| Dr. Sedaghat | <ul style="list-style-type: none"> Microprocessor, Grade: 20/20 |
| Dr. Noori | <ul style="list-style-type: none"> VHDL, Grade: 20/20 |
| Dr. Monsefi | <ul style="list-style-type: none"> Linear Control Systems, Grade: 18.5/20 |
| Dr. Sadoghi | <ul style="list-style-type: none"> Signals and Systems, Grade: 20/20 |
| Dr. Sadoghi | <ul style="list-style-type: none"> Intelligent Signals and Systems processing, Grade: 20/20 |
| Dr. Nouri | <ul style="list-style-type: none"> Computer Architecture, Grade: 20/20 |
| Dr. Naghizade | <ul style="list-style-type: none"> Operating Systems, Grade: 17.5/20 |
| Dr. Vahedian | <ul style="list-style-type: none"> Internship, Grade: 19.25/20 |
| Dr. Harati | <ul style="list-style-type: none"> Artificial Intelligence, Grade: 20/20 |
| Dr. Harati | <ul style="list-style-type: none"> Advanced Programming, Grade: 17/20 |
| Dr. Savadi | <ul style="list-style-type: none"> Machine and Language Theory, Grade: 17.25/20 |
| Dr. Masouffar | <ul style="list-style-type: none"> Data Structures and Algorithms, Grade: 17.9/20 |
| Dr. Hosseini | <ul style="list-style-type: none"> Computer Networks, Grade: 18.75/20 |
| SKILLS | |
| Software Development | <ul style="list-style-type: none"> Java SE, Java EE, C/C++, Android, 8086/86 assembly, Matlab, Nvidia CUDA (Excellent) Python, C# (Very Good) |
| Java | <ul style="list-style-type: none"> Hibernate, Maven, PrimeFaces, JDBC and ... |
| Operating Systems | <ul style="list-style-type: none"> Linux (Ubuntu ...), Windows (Excellent) Mac (Good) |
| Web Design | <ul style="list-style-type: none"> HTML5, CSS3, JavaScript, jQuery, Bootstrap (Excellent) |
| Web Development | <ul style="list-style-type: none"> PHP, Java EE (PrimeFaces) (Excellent) |
| Hardware | <ul style="list-style-type: none"> AVR, ARM7/9/11, DSP, FPGA, Cubeboard, Gyroscope, Accelerometer, Magnetometer (Excellent) |
| Software | <ul style="list-style-type: none"> Netbeans IDE, Eclipse IDE (Android), Visual Studio, Altium Designer, ModelSim, Quartus, Xilinx IDE, CodeVision, Proteus, Emu8086, Dnsdom, Inetli, Ispia IDE, PuTTY SSH (Excellent) SolidWorks (Good) |
| Prototyping | <ul style="list-style-type: none"> LaTeX, OpenGL, OpenCV, MS Kinect (Excellent) |
| Other | <ul style="list-style-type: none"> MS Office, Leadership and teamwork, Linux Server management, GIT (Excellent) |
| LANGUAGES | |
| | <ul style="list-style-type: none"> English Fluent Persian Native |
| REFERENCES | |
| Dr. Hadi Sadoghi Yazdi | <ul style="list-style-type: none"> Associate Prof. of Com. Eng. Ferdowsi University of Mashhad Email: H-sadoghi@um.ac.ir Home Page |
| Dr. Ahad Harati | <ul style="list-style-type: none"> Assistant Prof. of Com. Eng. Ferdowsi University of Mashhad Email: a.harati@um.ac.ir Home Page |
| Dr. Yasser Sedaghat | <ul style="list-style-type: none"> Assistant Prof. of Com. Eng. Ferdowsi University of Mashhad Email: y.sedaghat@um.ac.ir Home Page |

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