

Resume Ali Jahani Amiri

Department of Computing Science

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RESEARCH INTEREST

Computer Vision

Machine Learning

Image Processing

EDUCATION

M.Sc. student in Computer Science,
Faculty of Science, University of Alberta, Edmonton, Canada (2016 - now)
GPA: 4/4

B.Sc. in Electrical Engineering,
School of Electrical and Computer Engineering, University of Tehran, Tehran, Iran (2011 - 2016)
GPA: 15.59/20

Diploma in Physics and Mathematics Discipline
Shahid Beheshti High School, under the supervision of NODET (National Organization for Developing Exceptional Talents), Sari, Iran (2006 - 2010)
GPA: 19.13/20

TEACHING ASSISTANT

Introduction to Computing, Fall 2016

Principles of Electrical Engineering II, Fall 2015

Electronics I, Fall 2015

Industrial Control, Fall 2015

Microcontrollers, Fall 2015

Signals and Systems, Spring 2015 & Fall 2015

PUBLICATIONS

Real-time Video Stabilization and Mosaicking for Monitoring and Surveillance, ICROM 2016 (PREPRINT)

RESEARCH EXPERIENCE

- ***Incremental Structure from Motion***, Computer Graphics, Prof. Dale Schuurmans, University of Alberta
- ***Segmentation of Choroideremia Disease in Retina Images***, Machine learning, Prof. Russ Greiner, University of Alberta

HONORS AND AWARDS

Ranked 340 among 275000 in Iran's National Universities Entrance Exam (2011)

Team Rank 1st in semi-final and 2nd in final in Sharif's National Student Competition (2010)

Semi-finalist in Iranian National Olympiad of Computer, Mathematics, Physics and Chemistry (2009, 2010)

CERTIFICATES

Basic PLC Programming (IEEE, 2015)

Network Attacks (ACM, 2015)

TECHNICAL SKILLS

Programming: Matlab, C/C++, Python, VisualBasic, Pascal, C# and HTML
Expert in: Matlab, C++

Network: Network Simulator, Wireshark

HDLs: Verilog

EDA Tools: Labview, Multisim, Modelsim, Altera Quartus, Altium Designer, CodevisionAVR

Libraries: OpenCV, OpenGL

Operating Systems: Windows, Linux

NOTABLE ACADEMIC PROJECTS

- 3D Animating using OpenGL in C++, Computer Graphics, Fall 2016
- Real-time Video Mosaic using OpenCV in C++, B.Sc. Project, SPRING 2015
- Prison Break (2D game) Using SDL2 in C++, ADVANCED PROGRAMMING, Fall 2015
- Remote Car using Bluetooth in Matlab, MICROCONTROLLER, SPRING 2014
- Tank Altitude Control Using GUI Matlab, INSTRUMENTATION, SPRING 2013
- Designing Pipeline CPU (MIPS Implementation) using Verilog, COMPUTER ARCHITECTURE, SPRING 2013
- Design of Single Cycle and Multi Cycle ARM-like Processor in Verilog, COMPUTER ARCHITECTURE SPRING 2013
- Design of Calculation Units Using Verilog, COMPUTER ARCHITECTURE, SPRING 2013
- Digital Oscilloscope Using FPGA, DIGITAL LOGIC DESIGN LAB, FALL 2013
- Development of Box Man Game Using C, INTRODUCTION TO COMPUTER SCIENCE & PROGRAMMING, FALL 2011

ADMINISTRATIVE EXPERIENCE

- Director and editor of electrical engineering entrance 2011 graduation celebration video clips.
- Cooperate on holding Dang Show Group (in 2014) and Ghorbani concert (in 2015) in University of Tehran

HOBBIES

- Swimming
- Dota2
- Chess