**Resume Ali Jahani Amiri**

Department of Computing Science Cell phone: +1 780707 6363

University of Alberta **Email**: jahaniam@ualberta.ca

Edmonton, Canada **Homepage**: [cs.ualberta.ca/~jahaniam](http://cs.ualberta.ca/~jahaniam)

**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

**PUBLICTIONS**

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](https://www.youtube.com/watch?v=c83D8xNGMMo)
* [Real-time Video Mosaic using OpenCV in C++, B.Sc. Project, SPRING 2015](https://www.youtube.com/watch?v=on_sG_X79oQ)
* [Prison Break (2D game) Using SDL2 in C++, ADVANCED PROGRAMMING, Fall 2015](https://www.youtube.com/watch?v=RXgLNE3QBfg)
* Remote Car using Bluetooth in Matlab, MICROCONTROLLER, SPRING 2014
* [Tank Altitude Control Using GUI Matlab, INSTRUMENTATION, SPRING 2013](https://www.youtube.com/watch?v=9cirXtvfh50&t=282s)
* 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**

* Diroctor 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