Keyvan Gharouni Saffar

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EDUCATION

University of Alberta, Edmonton, Alberta, Canada

- MSc. in Electrical and Computer Eng. - Communications — Sep 2015 – present
  - Cumulative GPA: 3.8 / 4.0
  - Tentative Graduation Date: January 2018

Ferdowsi University of Mashhad, Mashhad, Iran

- BSc. in Electrical Engineering – Electronics — Sep 2010 – Sep 2014
  - Ranked 4th in class
  - Cumulative GPA: 18.56 / 20.00

PROFESSIONAL EXPERIENCE

- Research Assistant — Sep 2015 – present
  - University of Alberta, Electrical and Computer Engineering Department
  - Supervisor: Dr. Majid Khabbazian
- Livestock monitoring system using Wireless Sensor Networks over ZigBee and Bluetooth — Fall 2016
- Advancement of a Web Server on an Arm-based Embedded System — Mar 2014 – Sep 2014
  - Processor: AT91SAM7x256
  - Supervisor: Dr. Hamid Noori
- National Instrument (NI) LabView Certified Associate Developer — Jun 2016 – Jun 2018
- Internship at Tous power plant, Mashhad, Iran — Summer 2013

SKILLS

- Professional Skills
  - C/C++ programming
  - Ruby and Ruby on Rails
  - Verilog and VHDL hardware programming
  - HTML,CSS, Javascript and AngularJS
  - Assembly on ATmega micro-controllers
  - Programming with MATLAB
  - Programming on PLC (S7-300, S7-400)
  - Simulation with Proteus
  - System design and implementation on Xillinx and Quartus
  - Simulation with ModelSim
  - Simulation of analog circuits with Orcad Pspice
  - Familiar with simulation using Cadence IC
  - Familiar with Java Programming
- Personal Skills
  - Document preparation in Latex, Microsoft Word, Excel and PowerPoint

TEACHING EXPERIENCE

University of Alberta, Electrical and Computer Engineering Department

- Course Marker — Sep 2016 – Dec 2016
  - Computer Architecture
  - Instructor: Dr. Majid Khabbazian

Ferdowsi University of Mashhad, Electrical Engineering Department

- Teaching Assistant — Sep 2013 – Jun 2014
  - Computer Architecture
  - Instructor: Dr. Noori
  - Duration: two semesters
- Teaching Assistant — Sep 2013 – Dec 2013
  - Electronics II
  - Instructor: Dr. Maymandi Nejad

INTEREST

- Web Development (Front End and Back End)
- Wireless Sensor Networks (WSN)
- Embedded Systems
- System design and implementation on FPGAs
- Computer Architecture

PUBLICATIONS	**SUBMITTED**
	I have submitted a paper to IEEE INFOCOM conference on power consumption of Wireless Sensor Networks. However, due to the double blinded policy of the conference, details of this paper can't be provided until November 25th, 2016.

Jul 2016

REMARKABLE COURSES

- Ruby on Rails: An Introduction, Johns Hopkins University, Coursera
- Rails with Active Record and Action Pack, Johns Hopkins University, Coursera
- HTML, CSS, and Javascript for Web Developers, Johns Hopkins University, Coursera
- Single Page Web Applications with AngularJS, Johns Hopkins University, Coursera
- Advanced Topics in Communications: Cloud Networking, Grade: A+
- Computer Programming (C++), Grade: A+
- Advanced Computer Architecture, Grade: A+
- Automatic Design of Logical Circuits (VHDL), Grade: A
- Computer Architecture, Grade: A+
- Micro-controller I, Grade: A+
- Micro-controller II, Grade: A+
- Digital Signal Processing, Grade: A+

HONORS

- Ranked 4th among Electrical Engineering students – Electronics — 2010 – 2014
- Ranked 4th among all Electrical Engineering students — 2010 – 2014
- Ranked 6th in the 1st National Digital System Design Contest of Iran — November 2013
- Government bursary for undergraduate studies at Ferdowsi Unversity of Mashhad — 2010 – 2014
- Government bursary for graduate studies in Iran — 2014
- Member of Exceptional Talents in Ferdowsi University of Mashhad
- Ranked among top 1 percent, in the nation-wide university entrance exam — July 2010
  in Mathematics and Physics Discipline by receiving a ranking of 733 among
  approximately 400000 participants

MEMBERSHIP & CERTIFICATION

- National Instrument (NI) LabView Certified Associate Developer — Jun 2016 – Jun 2018
- IEEE student member — October 2014 – present
- Standard First Aid Certifiction — Oct 2016 – Oct 2018

EXTRA-CURRICULAR ACTIVITIES

- Career
  - Activity Monitor for soccer, University of Alberta, Canada — 2016 – 2017
  - Referee for soccer, University of Alberta, Canada — 2016 – 2017
  - Referee for Volleyball, University of Alberta, Canada — 2016 – 2017
- Volunteer
  - Faculty of Engineering Graduate Research Symposium, University of Alberta — June 2016
  - Fringe Festival, Edmonton, Alberta, Canada — August 2016
  - Iranian Association of the University of Alberta — 2015 – 2016
- Sport competitions
  - Ranked 2nd team in recreational soccer competitions, University of Alberta — Summer 2016
  - Ranked 2nd team in Swimming Competitions-National Stage — Summer 2003
  - Ranked 3rd in Swimming Competition-Provincial Stage — Summer 2000
- 21st Iranian Conference on Electrical Engineering — Apr 2013
  - Member of the Student Executive Committee
- AVR study group held by IEEE branch of Ferdowsi University of Mashhad — July 2011

LANGUAGES

- English: Fluent
- Persian: Native language.

REFERENCES

- Available upon request