Keyvan Gharouni Saffar

608, 11111 - 87 Ave, NW, Edmonton, Alberta, T6G 0X9 gharouni@ualberta.ca • +1 (587) 937-6053 http://www.gsaffar.com • https://github.com/KeyvanGSaffar/

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: 3.96/4.00

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: AT91SAM7x256Supervisor: 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
 - \bullet 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

Docume

• Document preparation in Latex, Microsoft Word, Excel and PowerPoint

INTEREST

- Web Development (front end and back end)
- Cloud Networking

Personal Skills

- Computer Networks
- Wireless Sensor Networks (WSN)
- Embedded Systems
- Computer Architecture
- System design and implementation on FPGAs

TEACHING EXPERIENCE

University of Alberta, Electrical and Computer Engineering Department

Course MarkerComputer Architecture

• Instructor: Dr. Majid Khabbazian

Sep 2016 - Dec 2016

Ferdowsi University of Mashhad, Electrical Engineering Department

Teaching Assistant

• Computer Architecture

Instructor: Dr. NooriDuration: two semesters

Teaching Assistant

Sep 2013 – Dec 2013

Sep 2013 - Jun 2014

• Electronics II

• Instructor: Dr. Maymandi Nejad

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

MEMBERSHIP & CERTIFICATION

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

EXTRA-CURRICULAR ACTIVITIES

- Career
 - Activity Monitor for soccer, University of Alberta, Canada
 Referee for soccer, University of Alberta, Canada
 Referee for Volleyball, University of Alberta, Canada
 2016 2017
 2016 2017
- Volunteer
 - Faculty of Engineering Graduate Research Symposium, University of Alberta
 Fringe Festival, Edmonton, Alberta, Canada
 Iranian Association of the University of Alberta
 June 2016
 August 2016
 2015 2016
- Sport competitions
 - Ranked 2nd team in recreational soccer competitions, University of Alberta
 Ranked 2nd team in Swimming Competitions-National Stage
 Ranked 3rd in Swimming Competition-Provincial Stage
 Summer 2003
 Summer 2000

Apr 2013

- 21st Iranian Conference on Electrical Engineering
 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