

# Keyvan Gharouni Saffar

Department of Electrical and Computer Engineering  
University of Alberta

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**Address:** 608, 11111 87 Ave, NW, Edmonton, Alberta, T6G 0X9  
**Cell phone:** +1 (587) 937 6053  
**Email:** [gharouni@ualberta.ca](mailto:gharouni@ualberta.ca) [k.gharounisaffar.1992@ieee.org](mailto:k.gharounisaffar.1992@ieee.org)

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## ► Education

- **Master of Science**, Electrical and Computer Engineering - Communications, University of Alberta, Canada, 2015 - present, (*GPA: 3.8/4*)
  - **Bachelor of Science**, Ferdowsi University of Mashhad, Electrical Engineering – Electronics, Iran, 2010 - 2014, (*GPA: 18.56/20*)
  - Hasheminejad1 High School, affiliated with the National Organization for Development of Exceptional Talents (NODET), 2009-2010, Pre-University Diploma in physics and mathematics discipline (*GPA: 19.56/20*)
  - Hasheminejad1 High School, affiliated with the National Organization for Development of Exceptional Talents (NODET), 2006-2009, High school Diploma in physics and mathematics discipline (*GPA: 19.20/20*)
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## ► Academic Experience

- **Research Assistant**, University of Alberta, Electrical and Computer Engineering Department
  - **Teaching Assistant**, Computer Architecture, Electrical Engineering Department, Ferdowsi University of Mashhad, Fall 2013 and Spring 2014 (Instructor: Dr. Noori)
  - **Teaching Assistant**, Electronics II, Electrical Engineering Department, Ferdowsi University of Mashhad, Fall 2013 (Instructor: Dr. Maymandi Nejad)
  - **B.Sc. Project**: Advancement of a Web Server on an Arm-based Embedded System (AT91SAM7x256)
  - **National Instrument (NI) LabView** Certified Associate Developer
  - Member of the Student Executive Committee of the **21<sup>st</sup> Iranian Conference on Electrical Engineering**, Spring 2013, Ferdowsi University of Mashhad
  - Attended a workshop by **Dr. Razavi** on **Recent Developments in SAR ADCs in 21<sup>st</sup> Iranian Conference On Electrical Engineering**.
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## ► Work Experience

- **Activity Monitor** for soccer, 2016-2017 (academic year), University of Alberta
  - **Referee** for soccer, 2016-2017 (academic year), University of Alberta
  - **Referee** for volleyball, 2016-2017 (academic year), University of Alberta
  - **Internship** at Toos power plant, summer 2013, Mashhad, Iran
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## ► Papers

- 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 25<sup>th</sup>, 2016.
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## ► Fields of Interest

- Web Development (Front End and Back End)
- Embedded Systems
- Architecture and Circuits for FPGAs

- Computer-aided Design (CAD)
  - Electronic System Design
  - Digital Signal Processing
  - Wireless Sensor Networks (WSN)
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## ► Skills

### Professional Skills

- Ruby and Ruby on Rails
- HTML, CSS, Javascript and AngularJS
- C/C++ programming
- Verilog and VHDL hardware programming
- Simulation with ModelSim
- Realizing logic circuits with Xilinx ISE Design Suite
- Realizing logic circuits with Quartus
- Simulation of analog circuits with Orcad Pspice
- Code Vision AVR Compiler
- Keil  $\mu$ vision
- Programming on PLC (S7-300 and S7-400)
- Programming with MATLAB

### Familiar with:

- Simulation with Cadence IC; Proteus

### Personal Skills

- Document preparation in Latex, Microsoft Word, Excel and PowerPoint, Familiar with Adobe Photoshop
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## ► Honors

- **Ranked** the 4<sup>th</sup> student among the students of Electrical Engineering – Electronics (2010-2014)
  - **Ranked** the 4<sup>th</sup> student among the students of Electrical Engineering (2010-2014)
  - Member of Exceptional Talents in Ferdowsi University of Mashhad
  - **Ranked** 6<sup>th</sup> in the 1<sup>st</sup> National Digital System Design Contest of Iran. (November 2013)
  - **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 (July 2010)
  - Admitted to attend NODET (National Organization for Development of Exceptional Talents) School in Mashhad (August 2006)
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## ► Extracurricular Activities

- Volunteer, Faculty of Engineering Graduate Research Symposium, University of Alberta, June 2016
  - Volunteer, Fringe Festival, Edmonton, Alberta, Canada, August 2016
  - Participated in study group of AVR held by IEEE branch of Ferdowsi University of Mashhad (July 2011)
  - Participating in the 1<sup>st</sup> National Digital System Design Contest of Iran. (November 2013)
  - IEEE student member
  - **Ranked** 3<sup>rd</sup> in Swimming Competition-Provincial Stage (Summer 2000)
  - **Ranked** 2<sup>nd</sup> team in Swimming Competitions-National Stage (Summer 2003)
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## ► Languages

**English:** Fluent

**Persian:** Native

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## ► References

- Available upon request