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OBJECTIVE

Pursuing PhD research and studies in the field of microelectronics and nanotechnology.

EDUCATION

- **Purdue University, PhD in Electrical and Computer Engineering** 9/2011 – present
West Lafayette, Indiana, United States
- **Sharif University of Technology, BS in Electrical Engineering,** 9/2007 – 7/2011
Tehran, Iran
 - GPA: 18.31/20 ➤ Credits Passed: 140/140
 - Ranked 2 out of 36, Electronics branch students, class of 2011
- Young Scholars Club, Preparation courses for Intl. Physics Olympiad, Tehran, 6/2006-8/2007.
- Allameh Helli Middle School and High School, National Organization for Development of Exceptional Talents (NODET), 2000 – 2006, Tehran. Diploma in physics and mathematics, GPA: 19.89/20.

HONORS AND AWARDS

- **38th International Physics Olympiad, Gold Medal,** over 330 participants from 73 countries, Jul 2007; exempted from Iranian universities entrance exam.
- **First Step to Nobel Prize in Physics,** International physics research paper competition for high school students, honorable mention diploma, organized by the Polish Academy of Sciences, Jun 2007.
- **The First Thailand International Science Fair,** selected as an international high school student, verbal and poster presentations, Bangkok, Thailand, Nov 2005.
- **Michael and Katherine Birck Fellowship Award,** PhD fellowship award, Purdue University, awarded Feb 2011.
- **Texas Instruments Distinguished Fellowship Award (declined),** fellowship awarded for the supplementary support in the PhD period at Rice University provided by Texas Instruments, Apr 2011.
- Honorary admission to Electrical Engineering graduate program at Sharif University, Iran.
- 2nd Nationwide Rank at 7th Kharazmi Contest, in the field of Computer Programming, Sep 2005.
- First Prize Winner of Iranian National Elite Foundation (owing to international Gold Medal achievement).

FIELDS OF INTEREST

- **Modeling and Physics of Semiconductor Devices**
- **Radio Frequency Circuits and Devices**

PROJECTS

- **B.S. Thesis:** “Modeling Random Dopant Fluctuation Effects on Fundamental CMOS Building Block Circuits”, *under supervision of Prof. Sarvari*, 8/2010 to 7/2011.
- “The Effects of Distributed Nonlinearities in Microwave Superconducting Devices”, the project associated with the grad. course “Princ. of Superconductivity”, 4/2010 to 6/2010.
- Investigating and modeling wide temperature variability effects on the devices used in rectifier circuits, 10/2009 to 2/2010.
- Projects done during undergrad courses:
 - “Designing Operational Amplifiers based on Bipolar/MOS Transistors with Frequency Considerations”
 - “8-point Fast Fourier Transformation System Implementation on Field Programmable Gate Arrays”
 - “Theoretical Solution for the Output Harmonic Distortion of a Common Emitter Circuit”
 - “Implementing a Function Generator Using an 8051 Microcontroller”

RELATED COURSES SCORES

	Princ. of Supercond. Devices and Circuits (20/20, <i>grad course at Sharif University</i>)	
Undergrad. Courses	Solid State Electronic Devices (20/20)	Analog Circuits & Lab. (20/20)
	Field and Wave (19.5/20)	Circuits Theory (19/20)
	IC Design using Cadence (18/20)	Probability and Statistics (20/20)
	Filters (19.5/20)	

TEACHING EXPERIENCES

- TA-ship experience in courses such as “*Solid State Electronic Devices I*”, “*Principles of Electrical Engineering*”, “*Analog Circuits*”, “*Digital Logic Design*” at Sharif University of Technology, 2007-2011.
- Teaching Electromagnetics to the students preparing for Physics Olympiad.

SKILLS

Language

- Proficient Persian (Native); Fluent English.
- **TOEFL iBT** (Sep 2010): **106/120**, Reading: **26/30**; Listening: **26/30**; Speaking **27/30**; Writing: **27/30**.

Software

- **Programming Languages:** MATLAB, Verilog, C/C++, Pascal, BASIC, and Assembly.
- **CAD Tools:** Cadence, HSPICE, Orcad PSPICE, Quartus II.
- **Typesetting Applications:** Microsoft Office, *familiar with LATEX* (in progress).
- **Typing Speed:** 320 char/min (5.3 char/sec), *evaluated using* <http://typingcup.com>.

EXTRA-CURRICULAR

- Participation as a Team Guide in the 3rd International Olympiad of Astronomy and Astrophysics (IOAA), Tehran, Iran, October 2009.
- **Hobbies:** Soccer, ping pong, modern novels, road trips.

REFERENCES

Available upon request