

Ali Ameri

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EDUCATION

- Ph.D., Electrical Engineering, IC Design
University of California Berkeley. (Sept. 2015 – Present)
- Master of Engineering (Thesis-based), IC Design
McGill University. Graduation: October 2011 (GPA: 4.0/4.0)
- Bachelor of Science, Electrical Engineering – Electronics
University of Tehran. Graduation: July 2008 (GPA: 17.15/20)

EXPERIENCE

Design Engineer Sept. 2011–Aug. 2015

Granite SemiCom Inc., Manager: Dr. Ken Martin

- Behavioral modeling of digital PLLs for precision clock generation and jitter cleaning applications.
- Design and layout of various PLL building blocks in TSMC 28HPM, 40LP, and 40G.
- Test board design and measurement of the PLL.
- Design of a sensor interface board and data acquisition system for industrial pressure sensors.

Research Assistant

University of California Berkeley, Advisor: Prof. Ali M. Niknejad Sept. 2015 – Present

- Flow cytometry sensor design for single biological cell identification and characterization.

Research Assistant

Sept. 2008 – June 2011

McGill University, Advisor: Prof. Gordon W. Roberts

- Design of a time-mode low-pass IIR filter in 0.13um IBM CMOS technology as part of my Master's thesis.

Teaching Assistant

ECE Department, McGill University:

- Electrical Measurement Laboratory Winter 2011, Fall 2010
- Mixed-Signal IC Test and Measurement Winter 2010

ECE Department, University of Tehran

- Electronics Circuits II Laboratory Winter 2008
- Electronics Circuits I Laboratory Fall 2007

PUBLICATION

- A. Ameri, G.W. Roberts, "Time-Mode Reconstruction IIR Filters for $\Sigma\Delta$ Phase Modulation Applications," *ACM Great Lakes Symposium on VLSI 2011*, pp. 423-426.

SKILLS

Software:

- Circuit and layout design platforms: Cadence, Laker, ADS.
- Circuit simulators: SPECTRE, HSPICE, SMASH.
- System level verification and programming: Simulink/MATLAB.
- Scripting languages: Python, TCL.

- Verilog simulators: Modelsim, VCS.
- Printed Circuit Board (PCB) design tool: Altium Designer, Design Spark.
- Operating Systems: Linux (Ubuntu, RedHat, CentOS), Windows.

Communication:

- Instructed tutorial sessions and delivered short lectures.

HONORS

- Principal's Graduate Fellowship (PGF), ECE Department, McGill University.
- Ranked 4th among Electronics Engineering students, ECE Department, University of Tehran.