

# Mahdi Ashktorab

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**EDUCATION** University of California, Los Angeles, CA  
M.S. Electrical Engineering  
Expected Graduation: Mar. 2012  
UCLA GPA: 3.48/4.0

San Jose State University, San Jose, CA  
B.S. Electrical Engineering  
Graduated May 2010, Cum Laude  
SJSU GPA: 3.628/4.0

**Relevant Coursework:**

Analog/Digital Circuit Design, VLSI Design, Embedded Systems, Digital Logic, Linear Systems, Network Analysis, and Solid State Device Physics.

**SKILLS** **Languages:** HTML, PHP, JavaScript, C, C++, and Verilog.  
**Software:** MATLAB, Cadence, SPICE, MS Office Suite, Adobe Photoshop.  
Fluent in English and Farsi

**PROJECTS** **Simultaneous Wireless Recharge and Data Transfer**, Current  
Design and build an isolated board which can: identify a device via RFID tag, begin inductive charging, and simultaneously capture data via Bluetooth.

**Fully-Differential High-Speed High-Precision Amplifier**, 2010

Designed and simulated two Fully-Differential High-Speed High-Precision Amplifiers. One aimed at minimizing settling time given a set power budget and the second aimed at minimizing power for a given settling time.

**CLB for FPGA**, 2010

Used Cadence tools to design, simulate, and layout a configurable logic block for a field-programmable gate array.

**Formula Hybrid Car Project**, 2009-2010

Electronics Team Lead to a multidisciplinary team of engineers responsible for the design and build of a hybrid race car. Placed second in the international, inter-collegiate competition held at the New Hampshire Motor Speedway.

**EXPERIENCE** Perot Systems Government Services, Moffett Field, CA

**Systems Administrator**, 6/07-7/2010

- Hardwired control circuit of a to-scale model Boeing 747 cockpit.
- Build and disassembled hardware components of PCs, Macs, laptops, servers, and workstations.
- Created interactive web-forms and databases using: HTML, PHP, and JavaScript.

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IEEE – San Jose State University, San Jose, CA

**Public Relations Officer**, 6/09-5/2010

- Managed industry contacts to the biggest student branch in the Bay Area.
- Organized technical conferences and fundraising initiatives to support the members of IEEE and the electrical engineers at SJSU.
- Took an active role in helping the greater community through information outreach.
- Won the IEEE Region 6 Central Area 'outstanding student chapter' award.

NASA Ames Research Center, Moffett Field, CA

**DEVELOP Intern**, 6/06-9/06

- Participated in a student-run, student-led NASA scientific research group in central Nevada.
- Used NASA satellite imagery and computer analysis to find statistical correlation between various fire factors of previous wildfires located in Nevada.
- The results were published and presented at the 2006 Joint Workshop on NASA Biodiversity

NASA Ames Research Center, Moffett Field, CA

**DEVELOP Intern**, 6/05-9/05

- Published and presented a scientific research paper at the American Geophysical Union in 2005 at the Moscone Center in San Francisco, CA.
- Used NASA satellite imagery to map specific plant locations and densities in Utah.
- Collected field data in Utah and used it to run an accuracy assessment on the predictive coverage map of non-native plant species.

## **ACHIEVEMENTS**

Dean Scholar, 2009

IEEE Member, 2008-2011

Phi Kappa Phi Member, 2009-2011

Tau Beta Pi Member, 2009-2011

Semi-Finalist at the California State Speech Championship, 2005