

KHALED A ALJALOUD

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Education

- ❖ 01/2012 to 12/2013: University of Southern California-Master of Electrical Engineering (VLSI System)
- ❖ 2009: Bachelor of Electrical Engineering from King Saud University

Work Experience

- 10/2010 – present: Teaching Assistant, Electrical Engineering Department, College of Engineering, King Saud University.
- 03/2009 - 09/2010: King Abdulaziz City of Sciences and Technology

Mixed/Analog IC Designer

Responsibilities:

- ❖ Mixed Integrated Circuit Design (Schematic & Layout).
- ❖ Simulating Electronic Circuits.
- ❖ PCB Design for Integrated Circuits and testing.
- ❖ Utilizing High Advance software for both the Integrated Circuits and PCB.
- ❖ Cooperating With ICmic to transfer IC Technology.

Graduate Courses

- ❖ Analog and Non-Linear Integrated Circuit Design
Project: Rail-to-Rail OP-AMP using LTspice.
- ❖ MOS VLSI Circuit Design
Project: The digital neuron using CADENCE
- ❖ Mixed-Signal Integrated Circuit Design
Project: Bandgap Reference Bias Circuit
- ❖ VLSI System Design A
Project: we designed digital image uniform noise attenuation using CADENCE
- ❖ VLSI System Design B
Project: The objective of this project is to design a 4-node Victory Chip

Multiprocessor. We design the Victory Network Interface Component (NIC) and combine four instantiations of it with the Victory Ring and four instantiations of the Victory Processor using RTL style of Verilog.

- ❖ Modern Solid-State Devices.
- ❖ Introduction to Nano Fabrication.
- ❖ Solid State Processing and Integrated Circuits Laboratory

Practical Courses and Training

- ❖ IC Designing.

- ❖ CMOS Analog Integrated Circuit Design.
- ❖ Low Noise Low Power Analog Integrated Circuit Design.
- ❖ Analog IC Design to tape out Training Course.
- ❖ Software & Tools

Working knowledge of programming languages MATLAB, Verilog and VHDL.
LABVIEW, CADSTAR and CADENCE
SEDA tools: SILVACO, Mentor Graphic, Synopsys and AWR.

References

- ❖ Prof. Jeffrey (Jeff) Draper, Project Leader/Research Associate Professor,
University of Southern California, USA. draper@isi.edu
- ❖ Prof. Chongwu Zhou, Professor, University of Southern California, USA.
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