

Stephen Williams

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Computer Architecture Lab,
University of Central Florida
32816, Orlando, FL

Education

B.Sc. Electrical Engineering, University of Central Florida

- Expected graduation: May 2016
- Current GPA: 3.72/4.00

Selected Courses

- EEL5390: Full-Custom VLSI: A
- EEL4783: HDL in Digital System Design: A
- EEL3350: Digital Signal Processing: A
- EEL3342C: Digital Systems: A
- EEL3801C: Computer Organization: A
- EEL3123C: Networks and Systems: A
- EEL3307C: Electronics 1: A
- EEL3470: Electromagnetic Fields: A

Research Interests

- Digital Signal Processing
- Analog and Digital Circuit Design
- Low-power Embedded Systems
- FPGA system design

Scholastic Achievement

- Research and Mentoring Program (RAMP): Two year funding for research assistance in the UCF Computer Architecture Lab.
- Recipient of NSF Young Entrepreneurs and Scholars Award.

Technical Skills

- Cadence Virtuoso: designed 6,400 transistor LFSR layout, simulated with Spectre. Experience in DRC and LVS.
- Verilog HDL: 8-bit μ C instruction fetch/decode module design, simulation with Xilinx ISE ISim and ModelSim.
- LTSpice & Multisim: Analog circuit simulation.
- Python: Signal processing applications.
- C: TI MSP430 using Code Composer Studio.
- Assembly: TI MSP430, Intel x86, MIPS64.
- Editing: conference papers, master's thesis, textbook chapter on rugged embedded systems.

Publications & Presentations

- 2015 NASA/ESA Conference on Adaptive Hardware and Systems, third author.
 - Received best paper award.
- Showcase of Undergraduate Research Excellence 2015, poster presentation.

Projects

- TI Innovative Design Challenge 2015: used CMOS-technology to aid paraplegic guitarists.
- Home-audio equipment: gained experience in amplifier, filter, and mixed analog-digital system design.

References

Dr. Ronald F. DeMara

Degree: Ph.D. Computer Engineering

Position: Department of electrical engineering and computer science (UCF) professor.

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Dr. Chung Yong Chan

Degree: Ph.D. Electrical Engineering

Position: Department of electrical engineering and computer science (UCF) lecturer.

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Dr. Jeffrey B. Bindell

Degree: Ph.D. Physics

Position: Department of physics (UCF) lecturer, director of techPATH (FHTCC).

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