Dylan Rosser

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631-681-6096

GRADUATE COURSEWORK

Courses:

- Analog Integrated Circuit Design
- Advanced Digital Integrated Circuit Design
- RFIC Design and Implementation
- Hardware Arithmetic for Machine Learning
- Introduction to Machine Learning for Engineers
- Principles and Engineering Applications of AI

Projects:

- 50-MS/s 10-bit SAR ADC (28nm Tapeout)
- 2.4-GHz Low Noise Amplifier in 65nm CMOS
- Colpitts VCO with 20% Tuning Range
- Double-balanced Down-conversion Mixer
- Low Power Dual Stage Op-Amp
- Capacitive MEMS Microphone with Polysilicon Membrane

EDUCATION

Carnegie Mellon University GPA: 3.52/4.0 — Pittsburgh, PA — December 2020

- Master of Science, Electrical and Computer Engineering

University of New Haven GPA: 3.78/4.0 — West Haven, CT — May 2017

- Bachelor of Science, Electrical Engineering,
- Bachelor of Science, Music and Sound Recording
    - Dean's List, Presidential Scholarship, Tutoring Award

SKILLS

- Circuit Design & Simulation
- Integrated Circuit Layout, PCB Design
- Electronic Hardware Testing & Debugging
- Machine Learning & Scripting
- Software: Virtuoso, Spectre, Innovus, VCS, MATLAB, KiCad, AutoCAD, Fusion360, Excel
- Programming Languages/HDL: Python, Verilog, C, VBA, LISP

WORK EXPERIENCE

Carnegie Mellon University — Pittsburgh, PA — August 2020 – Present
Microelectronic Circuits Lab Development Assistant

- Built and tested microelectronic circuits to assess their feasibility as at-home assignments.
- Delivered documentation and educational material to assist students and lab instructors.

Cosentini Associates — New York, NY — June 2017 – August 2019
Electrical Engineer

- Designed critical power & control systems for numerous large-scale real-estate ventures.
- Delivered short circuit, coordination, and arc flash hazard reports to an array of clients and implemented solutions to hazards discovered by the model.
- Created circuit diagrams for over 1 million sq. ft. of property.
- Authored and implemented scripts to automate job functions and increase efficiency.

LINKS

- http://www.linkedin.com/in/dylanrosser
- http://www.github.com/dylanrosser
- http://www.dylanrosser.us