

Eric Downey

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Eager and innovative Computer Engineering student currently pursuing a career in computer hardware, software development, and network security with great interest in obtaining an internship or co-op geared toward these areas of study

EDUCATION

University of Central Florida
Bachelor of Science Computer Engineering

Orlando, FL
Anticipated: May 2017

Programming coursework:

- Fundamentals of abstract data types, recursion, memory allocation, sorting algorithms, dynamic programming, and data structures
- Design, analysis, and practical applications of algorithms for tree, list, set, heap, and graph data structures, such as searching and sorting
- Establishing function and organization of operating systems, process management, virtual memory, I/O management, and file management.

Engineering coursework:

- Design and analysis of digital circuit schematics on Xilinx's ISE using the Verilog programming language and exporting these programs to a BASYS2 microcontroller
- Analysis of linear circuits, transients, AC analysis, power calculations, and electronic devices, such as p-n junctions, BJTs, and FETs
- Optimization of computer systems performance, processor datapath and control, instruction and arithmetic pipelines, cache and virtual memory, and RISC vs. CISC

ADDITIONAL SKILLS

- Proficient with C, Java, MIPS 64, TI MSP430 assembly, Intel x86 assembly
- Familiar with Python, JavaScript, C++, HTML, Verilog, Arduino, AutoCAD
- Experience in Microsoft Office, Xilinx ISE, Multisim 14, and Code Composer Studio

CERTIFICATIONS

- CompTIA Security+ Obtained: 2016

EMPLOYMENT

- Tabitha's Bistro
Waiter and Cashier 07/2012 - 09/2014
- Cooper City Rec Center
Counselor Assistant 04/2012 - 07/2012

STUDENT ORGANIZATIONS

- Participant in Collegiate Cyber Defense Club events
- Member of The Mad Scientist's Research Society

PROJECTS

- Plan, test, and implement a Web-based four function mathematical equation solver using JavaScript
- Design and program a digital clock using a Texas Instruments MSP430 development board with an LCD display module
- Developing an Android-based blackjack card game application in Java with Google Analytics API and Google AdSense