

# Seth Miers

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## Summary

I have been immersed in many different fields of Electrical Engineering and Computer Science through internships, undergraduate research positions and personal projects. I am seeking an internship or job to advance my understanding in Electrical and Computer Engineering.

## Education

### University of Colorado

Field: *Electrical and Computer Engineering*

Boulder, Co  
Aug. 2011 – Current

- Key Courses: Calculus 3, Differential Equations, C Programming with Matlab, Digital and Analog Electronics, Embedded Systems, Digital Logic, Circuits 3/Microelectronics, Electronics Design Lab, Digital design lab, Computer Organization/Programming of Digital Systems, Electromag Flds/Waves, Linear Systems, Discrete Math
- Current cumulative GPA: 2.9/4.0

## Experience

### First RF Corporation

*Intern*

*Boulder, Co*

- Programming waveform generator on an FPGA
- Programming send/recieve communication on an FPGA
- RF simulation
- Antenna testing on network analyzer
- Hardware assembly

### CU Boulder Research

*Research Assistant*

*Boulder, Co*

- Programming for a DMD in C and VHDL
- C Programming
- Matlab Programming
- Assembling and testing optical equipment
- Microstereolithography research

### Xilinx

*Intern*

*Longmont, Co*

- Working with large computer clusters (processing servers)
- Testing FPGA hardware and software
- Testing various hardware components
- Complete python testing applicaiton
- Programming in TCL

### CU Boulder - Bold Center Help Hours

*Tutor*

*Boulder, Co*

- Helping students understand Calculus 1-3
- Helping students understand Digital Logic
- Record keeping
- Matlab organizaiton
- Homework organization

## Skills

**Technologies:** C/C++, Assembly (x86 and 6502), VHDL, Verilog, Python, HTML, CSS, PHP, MySQL, ASP, Java, Regex, MSDOS, Advanced Unix Shell Scripting, LaTeX, GIT, CVS, SVN, XML, XPATH, TCL

**Computer and OS:** Linux/Unix/Embedded Unix, Windows, Mac OS, Virtualization with virtual box and VMware, Hypervisors, in depth hardware and software troubleshooting, OS setup, BIOS and EFI setup

**Hardware:** signal generator, power meter, multimeter, oscilloscope, FPGA, Arduino, PIC microcontrollers, network analyzer, XPS controllers, Various communication protocalls

**Software:** Xilinx Design Suite, Vivado, Altium PCB layout, Eagle PCB layout, Spice, Matlab, Visual Studio, Blender CAD, Solidworks CAD, Microsoft Office, Adobe Suite, Vim, Emacs, DOS, Terminal

**Projects:** Autonomous UAV, Tesla coil, Ruben's tube, custom DDR pad, 3' by 3' touch screen table, arcade cabinet, monitor backlighting, magnet generator, bike light speed, surface mount oven, door unlocker, steam boat, Jacob's ladder, laser FTIR, real time clock, CNC, Unlocking system, custom built computer

## Achievements

- Eagle Scout (through Boy Scouts of America)
- Completed Kauai Marathon (2009)
- Calvary church student leader with Jack's Fish Kamp
- Yearbook technology administrator (2009-2011)
- CU crew and high school crew (2009-2012)
- Interests: parkour, slacklining, running, experimenting, building, legos, backpacking, board games
- Student Achievement in Computer Science at Fairview High School (2008-2009)
- Certificate of Achievement at Fairview High School for using various computer applications (2009-2011)
- Intel Corporation Award for Excellence in Computer Science (Science Fair 2011)
- Intel Mathematics and Computer Science (2011)
- Fairview Band Heart and Soul (2007-2010)