

## **RESUME**

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### **Education:**

University of California Santa Cruz: Bachelor of Science in Computer Engineering with a concentration in Networks.

I have taken classes for Logic design, microprocessor system design, networks, and computer science classes encompassing search algorithms, abstract data types, operating systems and artificial intelligence-natural language processing. I have also taken extensive classes in math, and some basic electrical engineering classes.

### **Skills:**

- 13+ years of programming experience (since age of 10).
- Strong skills in C, Java, Mips32 (assembly)
- Strong skills in (X)HTML/HTML5, Javascript, CSS
- Experience with C++, Python, PHP, MySQL, Perl, MATLAB, BASIC
- Working experience with video and audio codecs, compression techniques, containers, streaming and transcoding.
- Experience with networking, networking administration
- Experience with embedded systems (microcontrollers and large SOCs), hardware initialization and device drivers
- Experience with circuits: power, microcontrollers, digital and analogue signals.
- Proficient with common serial communication protocols: SPI, USB, I<sup>2</sup>C, UART.
- Working experience with Unix and Linux (C programming, shell scripting, make systems, file systems, libraries, modules, networks etc), as well as Windows, Mac OS/iOS.
- Experience with programming operating systems: memory management, interrupts, process management, IPC, file systems, caching.

- Familiarity with Verilog, and Assembly (Sparc, M8C, HC11, ARM, Mips)
- Proficient with various software: Office (inc. project, and publisher), pro audio editing software, various IDEs (Visual Studio, Xilinx, Quartus II, PSoC designer, and more), ffmpeg, MP4Box, gnuplot and others.
- Strong communication skills, with the ability to work in teams as well as independently.

### **Related Leadership Experience:**

Lead a project in the engineering senior design class creating a modular musical interface system. The project incorporated data acquisition and real time processing and real-time communications between micro-controllers.

### **Work Experience:**

- I have been working for the hardware department at TiVo since January 2012 doing the following: hardware and software bring up, power and performance measurements, debugging hardware and software, failure analysis, and developing demonstrations for features of new products or releases (internal demos, CES and other shows, 3<sup>rd</sup> party products). I have done extensive work on the latest “TiVo Stream”
- I worked at an internship for TiVo between June and September 2011. My internship consisted of various hardware and software related tasks. I coded an extensive mips32 memory tester that ran out of cache only. I created some performance graphing utilities, brought new hardware up, and performed some power testing.
- I have been running my own business around the Carmel/Monterey area for 7 years building and repairing computers, troubleshooting software and operating system, managing small networks, as well as building and managing some websites. I have had a number of clients mostly consisting of individuals but including businesses: Monterey Energy Group, Click Home Realty, Cad Carmel, woofco tv and others. I have also done audio recording, and mastering for some clients as an extension of my services.