Douglas Concors

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Personal Profile

An enthusiastic embedded software engineer with a focus on hardware hacking and device drivers. I have 6 years of experience developing drivers and hardware platforms for Cubesat radios running linux and custom FPGA IP cores. I am searching for an opportunity to help a small business with software and FPGA integration.

Education

BS Computer Science (2016) - California State University at San Marcos

Employment History

Jan 2014 - Vulcan Wireless

Present Embedded Software Engineer

Skills:

Driver development - Wrote drivers to allow linux SDR applications communicate with custom memory mapped VHDL IP cores.

Hardware bringup - Ported linux distributions such as buldroot to new radio hardware, designed and troubleshot schematics, created build automation scripts to deploy applications and IP to the new hardware.

IP Integration - Created and modified IP interconnect designs to allow processors to communicate with virtual devices within an FPGAs.

Technologies: Xilinx Vivado, Xilinx SDK, GNU MAKE, Python, C, Bash, VHDL

Mar 2013 - Staples INC
Jan 2014 Easytech Associate

Sold and repaired electronic devices, interfaced with customers.

Hobbies and Personal Projects

FPGA Synthesizer Quad channel audio synthesizer controlled via SPI implemented in VHDL. **Demoscene projects** Various video rendering demonstrations using a low power 16-bit microcontroller.

Software Engineering Skills

Programming Languages

C - Microcontrollers (MSP430, AVR), chip-to-chip communication (SPI, I2C, memory map, serial), Linux drivers, threading, and networking VHDL - Create new IP, integrate existing IP into new designs Python - PySerial, sockets

Miscellaneous

Git - Source code version control Soldering - Can solder 0804 SMT and QFP Microsoft Office - Word, Excel, etc