Brady L. Hurlburt

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github.com/aninternetof

SKILLS OVERVIEW

C/C++ for Linux apps and drivers
C for microcontrollers
Python apps and scripts
VHDL, Verilog, and system logic design
Matlab advanced filter design
TCL/BASH scripts
Git and SVN

EDUCATION

B.S. IN ELECTRICAL ENGINEERING
May 2011
Minors in Mathematics and Music
University of Arkansas
Fayetteville, AR
GPA 3.97/4.00
*Dept. of Electrical Engineering
Outstanding Senior*

MASTER OF ARTS IN TEACHING
Expected December 2015
Marian University
Indianapolis, IN
GPA 4.00/4.00
*Taking courses on weekends and
evenings*

PUBLICATION

"Application-specific memory
performance of a heterogeneous
reconfigurable architecture"
*Design, Automation & Test in Europe
(DATE), 2010*
Whitty, Sahlbach, Hurlburt, Ernst,
Putzke-Roming

EXPERIENCE

FOR CLIENTS

V4L2 VISION PLATFORM FOR AUTONOMOUS VEHICLE
- Architected a vision platform for an autonomous vehicle based on an ARM+FPGA SoC.
- Accelerated the client's algorithm with custom video-processing FPGA peripherals and wrote V4L2 drivers to abstract them into an easy-to use interface.
- Worked with the client's developer to create an application with an efficient frame buffering scheme.

QT PROTOCOL
- Implemented PP/ATT/GATT layers of custom communication protocol in a QT application.

MICROCONTROLLER INKJET DRIVER
- Designed hardware and wrote cycle-critical MSP430 code for an inkjet controller.

FOR SCHOOL

Developed a vocal **MIDI CONTROLLER PLUG-IN** for Reaper.

FOR FUN

Designing a **WEB-CONNECTED RGB LAMP** centered on a BeagleBone Black and Python2. It accepts HTTP JSON posts for connecting to live data streams like a Twitter sentiment analyzer or a wearable health monitor.

EMPLOYMENT

INDESIGN, LLC
INDIANAPOLIS, IN – NOV 2012 TO PRESENT
SOFTWARE / ELECTRICAL / PROGRAMMABLE LOGIC ENGINEER

Design engineer responsible for helping clients turn their ideas into manufacturable products.

AMERICORPS / M.S.D. OF PIKE TOWNSHIP
INDIANAPOLIS, IN – JUNE 2011 TO OCT 2012
MATHEMATICS TEACHER

Taught high-school and middle-school mathematics in Pike's alternative program. My algebra remediation course achieved a higher standardized test pass rate than the traditional high school's.