1943 Lucille Lane Pleasant Hill, CA 94523 (925) 639-2609 axr8451@rit.edu www.github.com/ARamsey118

Andrew Ramsey

Education

Aug. 2014 –

Computer Engineering, Rochester Institute of Technology, Overall GPA: 3.96, Honors

Present

- Digital System Design II with Lab
- Assembly Language with Lab
- Circuit Analysis I with Lab

- Circuit Analysis II
- Electronics I with Lab
- Product Innovation

Computer Skills

Languages:

C, VHDL, Verilog, Python, Assembly, LaTeX, Bash

Software:

Linux, Vivado, ISE, ModelSim, OrCAD PSpice, Quartus II, GNURadio, Git, Vim

Hardware:

Xilinx FPGAs, SDRs, Cortex-M0+, Oscilloscope, Multimeter, Function Generator

Interests:

Hardware Design, Hardware Evolution, Embedded Systems, Open Source

Jobs

May 2016 –

Computer Engineering Intern, Parsons Corporation

Present

Designing FPGA programs and software defined radio based applications

- Integrating and testing prebuilt and custom IP to create a complete FPGA design
- Generated spec-compliant radio transmissions based on decoded data
- Replaced GNURadio with a custom, lightweight version using only C

Aug. 2015 -

Teaching Assistant & Mentor, Rochester Institute of Technology

Present

Assist first-year students in lab exercises and adjusting to college

- Graded lab exercises and reports
- Explained digital design concepts in a straightforward manner
- Rewrote lab handouts to be understandable and self-contained

Projects

Dec. 2015 -

Mastermind

Present

The game of Mastermind on the Freescale Freedom KL46Z

- Designing a PCB to use as an outreach tool for children
- Wrote mixed C and ARM Assembly to provide software functionality
- Enhanced the game using RGB LEDs for feedback

Oct. 2014 -

Clue

Present

An effort to recreate the board game Clue on the computer in C

- Learning how to create complex data structures in C
- Developed a decision model based on real world experience
- Self taught graph theory principles

Nov. 2014 -

Freescale Car Competition

May 2015

Built and programmed an autonomous car to compete in an international race

- Developed with MATLAB, Simulink, and mbed
- Learned to work with others' code

Extracurriculars

Eagle Scout Award & Scholarship, Assistant Scout Master

Contra Costa County Sheriff's Search and Rescue

Launch Initiative – Avionics