Yiran Wang

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Education:

University of California, Los Angeles Sept 2013 – present
Henry Samueli School of Engineering and Applied Science
Major in Electrical Engineering

Skills:

- Program language: C++, C, Python
- Tools: SPICE, MATLAB, Altium Designer, LabVIEW
- Proficient in making lab samples, such as soldering circuit panels
- Having experience in working with lab devices, such as DMM, oscilloscope.
- Having experience with MCU.

Experience:

Research Experience
Integrated NanoMaterial Core Lab, UCLA Jan 2014 - Jun 2015

- Doing photo luminance, time-resolved photo luminance, and solar cell experiment which are testing the material quality according to the spectrum frequency.
- LabVIEW programming

Project:

Light sensitive electric shutter Sept 2014 - Dec 2014
This project is to design an electric shutter which can adjust its angle according to the light strength of the environment. TI LM4F120 Launchpad is used as the control part of this project. It controls the motor according to the data from photoresistor by giving voltage to an H bridge circuit. I wrote the MCU code and design the circuit used in this project.

Digital Frequency Detector Aug 2015 – Sept 2015
This detector is used to gauge the frequency of 1Hz to 50MHz sinusoidal wave. It also can calculate the duty cycle of signals. The error of this detector is less than 1.2%. PCB is designed by myself, and TI LM4F120 Launchpad is used as the control part.

NATCAR Oct 2015 – present

Related Course:

CS32: Data structure
CS33: Intro to Computer Organization
EE110: Circuit Theory
EE113: Digital Signal Process
EE141: Feedback Control
CS35L: Software construction laboratory
EEM16: Digital system and logic design
EE102: Systems and Signals
EE115A: Analog Circuit
EE131A: Probability and Statistics
EE115C: Digital Electronic Circuits (CMOS VSDL Design)

Activities:

Secretary of Engineering Society of UCLA May 2014 - May 2015