

XiYuan Huang

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Education:

Electrical and Computer Engineering

Oregon State University, 2017-Present

Minor: Computer Science

Experience:

Electronic Commerce Seller

JiaNuoLu Leather Co., Ltd., Guangzhou, China | 2016 June - 2016 Sep

My job was to manage a shop on Amazon which sold the backpack. I was responsible to upload the detail of each product and reply to the customer email.

Projects:

Audio Visualizer - Junior Accelerated Project 1, OSU Sep 2019 - Oct 2019

This is a group project with three people and uses the Arduino as the microcontroller. The purpose of this project, Three Band Audio Visualizer, is to take in a frequency signal, transfer it to a voltage source and display the strength of the signal in the LEDs in at least three different levels. My contribution: Arduino Code, Microphone circuit.

Servo PID Loop - Junior Accelerated Project 2, OSU Oct 2019 - Nov 2019

This project is to develop and implement a PID loop powered by a microcontroller that can turn a motor into a servo. This system is created by the PID loop with the Arduino, a feedback potentiometer, a DC motor, and a motor controller. My contribution: the Arduino code, the PID loop circuit.

Music Box - Junior Final Project, OSU

Jan 2020 – Mar 2020

A project done with three other people over the course of three months (one term), in which an Intel FPGA board was intended to allow a music box equipped with a microphone, sound chip, speaker, interface buttons, and audio visualizer to record sound in the range of 500-10000 Hz and playback that sound in discrete frequencies corresponding to notes on the chromatic music scale. The project was not entirely successful due to problems in integration, but it generated several viable artifacts and a fully-assembled prototype. In the end, this project is presented by the Arduino. My contribution: Controlling the LED matrix by the FPGA, the Arduino code.

Skill:

- Programming (C/C++/Assembly/Verilog)
- PCB schematic and layout (Altium designer)
- LTspice
- Linux
- Matlab
- Website Programming (HTML, CSS, JavaScript)