YICHENG XIONG

Electric & Computer Engineering

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EDUCATION

Oregon State University

Bachelors in Electric & Computer Engineering

Mar 2018 – Aug 2022 Corvallis, US

- Electric & Computer Engineering GPA: 3.2/4.0
- Full year of study at Oregon State University, College of Engineering

EXPERIENCE

Soft Engineer

ECE272 Lab

Mar 2020 – June 2020 Corvallis, US

- Summarize the schematic and draw the circuit diagram in Modelsim.
- Use SystemVerilog to build the operating environment.

Elctrical Engineer

ECE 341 Lab

Jun 2021 – Mar 2021 Corvallis, US

- Soldering the Arduino Nano circuit board, and successfully converted the output of the 5V circuit and the 3.3V circuit.
- Use Arduino to convert the input and output voltages into text form, and plot the voltage changes in MATLAB.

Soft Engineer

ENGR202 Lab

June 2020 – Aug 2020 Corvallis, US

- Calculate the current in the circuit.Use LTspice for circuit drawing.
- Use MATLAB for simulation drawing, and statistical comparison of the results.

LANGUAGES

English
Mandarin

TECHNICAL SKILLS

C C++ SystemVerilog LTspice MATLAB

PROJECTS

Passive Filter Design Using MATLAB Simscape

- Use the frequency filter to filter a specific wavelength based on a specific frequency and assign it to each speaker separately.
- Three different filters can be used to create different sounds and frequencies including aggressive heavy bass, light smooth sound, or other various. frequency music.

NES controller, 3/8/2020

- Specifically calls on a counter to digitally count up and display the current number on a seven segment display.

JD power supply, 2/8/2021

- Design a virtual circuit and debug it in Arduino.
- Restore the design in the actual circuit to ensure that the voltage can be stably converted.

Accelerated Project, 3/19/2021

- Use Arduino Nano to build an FFT, it will sample the audio signal from the signal source and display the detected notes on 8 different LEDs. The range of the note is from mid range C (261.626 Hz) to treble C (523.251 Hz). Any unamplified instrument can be used, a test sequence of notes can be played using a mobile phone, or the included LM386 can be connected to the Arduino to provide a test tone.

Non- Contact Temperature Scanner, 5/29/2021

- A non-contact temperature scanner with Arduino Uno as the core. Can be charged, OLED display, buzzer alert.

SOFT SKILLS

- Remote working experience, able to use remote sharing software for work.
- Willing to spend time on self-learning related skills.