Don Nguyen

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EDUCATION

Oregon State University   June 2022

B.S; Major: Electrical and Computer Engineering | Minor: Computer Science

- GPA: 3.98 - Dean's List 8 of 8 terms
- Finley Academic Excellence Scholarship, Bower Engineering Scholarship
- Relevant Coursework: Electrical Fundamentals (I, II, III), Digital Logic Design, Data Structures, Analysis of Algorithms, Operating Systems (I, II), Electronics, Computer Organization and Assembly Language Programming, System Design with Microcontroller, Senior Design

SKILLS

Tools: Oscilloscope, DMM, Function Generator, Power Supply, Arduino, RPi
Programs/Languages/OS: C, C++, Assembly language, MATLAB, LTSpice, Linux, Windows

WORK EXPERIENCE

Western Digital   **San Jose, CA**

Firmware Engineer Intern   June 2021 - Sept 2021

- Improved the quality, readability, and maintainability of HDD firmware
- Retired feature switch controlling shingled maintenance read logging on HDD firmware
- Added new Shingled Maintenance Activity API to improve firmware efficiency

Oregon State University   **Corvallis, OR**

Undergraduate Researcher   April 2021 - June 2021

- Researched energy efficient wireline transceivers
- Investigated CTLE circuits to optimize power consumption while maintaining dB peaking

EXTRACURRICULARS + PROJECTS

Microcontroller Alarm Clock

- Design and developed efficient firmware for the ATmega128 microcontroller to create an alarm clock with precise timing, settable time and alarm, audible speakers, and auto-brightness adjust

Smart Chicken Coop

- Designed and implemented a smart chicken coop using a Raspberry Pi that monitors water level, food levels, temperature, and humidity along with auto adjusting heat lamps.

Spectral Analyzer Project

- Built a working microphone and amplifier using datasheets and circuit laws
- Incorporated Arduino to record and take the fourier transform of the data