

LUCAS HANSSEN

(971)208-8619 ♦ hanssenl@oregonstate.edu

EDUCATION

Oregon State University, Corvallis

September 2016 - [Expected Graduation: June 2020]

Bachelors of Science

Engineering GPA: **3.43**

Major: Electrical and Computer Engineering

Minor: Computer Science

- Introduction to CMOS
- Energy Efficient VLSI
- Computer Architecture
- Materials and Devices
- Semiconductor Devices
- Semiconductor Processing

PROJECTS

Portable Game Console, DreamZBox 2.0 [Senior Project]

Battery powered gaming console ran off Raspberry pi with custom Bluetooth controllers

- PCB design and assembly
- Embedded C programming
- Python programming
- Battery Management

VLSI Multiplier Layout

3 Bit Multiplier layout in Electric sized and tested using LTspice analysis

- Transistor layout
- Simulation Testing
- Digital Logic
- Efficient Problem Solving

WORK EXPERIENCE

Oregon State University, School of EECS

March 2019 - Current

Teaching Assistant

- Give lectures over current course topic that can be understood by the majority of students.
- Resolve errors with student simulations and programming.
- Teach the functionality of filters and how to analyze in frequency response.

Oregon State University, Housing and Dining

June 2018 - January 2020

Building Service Assistant

- Work independently with little instruction to complete various daily tasks.
- Manage a group of diverse individuals to get multiple tasks completed within the day.

Garmin International, Salem

June - September, 2016

Product Support Specialist

- Effectively troubleshoot multi-step problems to customers satisfaction.
- Communicate precise and detail instructions to customers to solve their problems.

TECHNICAL SKILLS

Coding Languages

C, C++, AVR, Python, Verilog

Modeling and Analysis

MATLAB, Altera, SolidWorks, LTSPICE, ModelSim, Electric

Software & Tools

MS Office, L^AT_EX, USBasp