

Luke Bucklew

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Objective

Obtain an entry level Signals or Controls Position utilizing knowledge gained from a BS in Electrical Engineering.

Qualifications

- Three years of college level education developing central concepts including; signals and systems analysis, feedback analysis and design , and analysis and design of single stage and multistage circuits
- Developed skills include – linear systems analysis (Fourier/Laplace/ODE), combinational circuit design and simulation, Mealy/Moore finite state machine creation, and MIMO control systems
- Software competencies – Matlab, Xilinx, FlexPDE, and Verilog
- Hardware proficiencies – Time delay circuits, variations of op-amp circuits, flip flop and latch implementation in FSM, thermoelectric devices, wireless charging, and fundamental trouble shooting

Education

Electrical Engineering B.S.

Expected Graduation: June 2017

GPA: 3.1

University of California, Santa Barbara

Relevant Coursework

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| - Signal Analysis and Processing | - Introduction to Solid State Electronic Devices |
| - Digital Design Principles | - Integrated Circuit Design and Fabrication |
| - Control Systems 147A&B | - Senior Capstone project |

Experience

Z-Power Summer EE Internship

June 13 2016 – September 17 2016

- Evaluated PWM two stage filter and minimized to single stage for future room on PCB
- Ran and analyzed the USB low speed signal integrity of current hearing aid charger
- Debugged latest revision of the MCC GUI tool using USB protocol analysis
- Worked towards the development of the 2017-18 wireless charging solution
- Presented on my work completed in front of EE team and VP of Zpower

SONOS Intercom, UC Santa Barbara

September 2016 – Present

- Met weekly for mentoring and professional feedback from SONOS mentors
- Developed PCB on Eagle alongside Computer Engineer
- Worked on beam forming and capacitive touch with EE design team

Soothing Technologies, Santa Barbara

August 2015 – March 2016

- Worked to develop a thermoelectric cooling glove alongside business major and fellow EE student
- Applied technology to a skin condition common in young adults

Achievements

- Eagle Scout – Boy Scouts of America
- Heroism Award – Boy Scouts of America