

James Choi

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OBJECTIVE

Future BSEE grad (June '18) and future MSEE student ('18-'19) with industry and research experiences in Software and Hardware looking for a summer internship in ASIC, PD, RF, SI, Optics, and Machine Learning.

EDUCATION

University of California, Santa Barbara (UCSB)

Bachelor of Science in Electrical Engineering

September 2014 - June 2018

Coursework

ECE: Verilog & Synthesis, VLSI, Analog & Digital Circuit Design, T-Line Theory, E&M, DSP, Solid State

CS: MATLAB (Computer Vision), C++, TMP: Entrepreneurship, Materials: Structure & Properties

HONORS

University of California, Santa Barbara

Harold Frank Entrepreneurial Scholarship, Dean's List, Engineering Research/Writing Award

SKILLS

Tools: ADS (Stripline & Channel Modeling, AMI Simulation), MATLAB (Automation Scripting), ANSYS HFSS,

Cadence Allegro & Virtuoso, Verilog, HSPICE, MAX & SUE, PLTS, C++, HTML, Ruby on Rails

Lab: VNA (Agilent, Anritsu), Microwave Probing- 85um-1000um Pitch & 10MHz-75GHz (Packages, Systems, Optical/Photonic Modules), TDR, OSA, Oscilloscope, Soldering (Iron, Convection, Infrared), 3D Printing

EXPERIENCE

ASIC/RF Signal Integrity Intern, Juniper Networks Sunnyvale, CA

June 2017 – September 2017

- Characterization and parameter extraction of stripline layout, substrate, copper, and glassweave
- SATA, PCIe link modeling, simulation, and probing
- Automation scripting for board structure removal

RF Signal Integrity Intern, MACOM Newport Beach, CA

June 2016 – September 2016

- HFSS transmission line topology simulations for a new 12G crosspoint switch board
- Research to set industry guidelines for calculating bond wire inductance
- Package level probe measurements assuring the manufacturing integrity

Undergraduate Researcher, AIM Photonics Santa Barbara, CA

January 2017 – Present

- 100G HFSS simulation for launch structure at microstrip and SMP/SMD connector
- Modulator and chip characterization using OSA & Probes
- Study in photonic switch driver

Undergraduate Researcher, Experimental Cosmology Group Santa Barbara, CA

March 2016 – December 2016

- Research in digital design, satellites and propulsion systems
- Starshot Project led by Professor Lubin is supported by NASA, Stephen Hawking, and Mark Zuckerberg

Software QA, Trelp Santa Barbara, CA

September 2015 – December 2015

- Assist in website building a mobile application, Trelp, which provides truck drivers with rest spots
- Leadership demonstration by successfully carrying out the business plan

Personal Venture, AlziCam Santa Barbara, CA

November 2015 – January 2015

- Led a team to finish a feasible business proposal, AlziCam, which helps Alzheimer's patients
 - Wearable camera that records and shares videos with patients and caretakers

EXTRACURRICULARS

Computer Manager, IEEE Largest Technical Professional Organization

May 2016 – June 2017

- Lab equipment maintenance and assist members and lower classmen with their projects

Alpha Kappa Psi Professional Business Fraternity

September 2015 – June 2016

- Responsible for revamping and adding functions to the website using Ruby on Rails

Vice President, Techonits Sunnyvale, CA

September 2011 – January 2014

- Co-founded a CA non-profit organization that brings benefits of technology to senior citizens