

James Choi

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OBJECTIVE

Third year electrical engineering student with experience in RF, HPA, Signal Integrity, and Analog Design interested in opportunities in the Semiconductor, Automotive, and Aerospace industries

EDUCATION

University of California, Santa Barbara (UCSB)

Bachelor of Science in *Electrical Engineering*, GPA 3.40

September 2014 - March 2018

Technology Management Certificate

March 2017

Coursework

EE: Signal Analysis, Solid State, EM Fields & Waves, Circuits, Devices, Systems, Logic Design, Materials: Structure & Properties, TMP: Entrepreneurship, C++: Advanced Problem Solving, MATLAB: Programming for Engineers

HONORS

University of California, Santa Barbara

Dean's List, Harold Frank Scholar, Engineering Honors Program, Engineering Writing Award

SKILLS

Hardware: *ANSYS(HFSS, Designer), ADS, Altium, Packaging Design, Probing, Soldering(Iron, Convection, Infrared), VNA, Oscilloscope, 3D Printing*

Software: *MATLAB, C++, JavaScript, HTML, Ruby on Rails*

EXPERIENCE

Undergraduate Researcher, Experimental Cosmology Group

March 2016 – Present

- *Starshot Project* led by Professor Lubin is supported by NASA, Stephen Hawking, and Mark Zuckerberg
- Designing and learning about digital design, satellites and propulsion systems
- Planning on doing more research in rockets and photonics using various CAD tools and 3D printing

Signal Integrity Intern, MACOM

June 2016 – September 2016

- Overlooked the entire engineering process in R&D, application, validation, and customer relation
- Conducted a research and performed precise probe measurements to set industry guidelines for calculating bond wire inductance (Probe Measurements, S-Parameters, ANSYS)
- Completed 4 different layouts on HFSS to analyze different transmission line topologies for a new 12G crosspoint switch board
- Analyzed several coupon boards taking connector and probe measurements in order to ensure the manufacturing integrity over time (ANSYS & TDR, IR, RL, Delay)
- Performed thru hole and surface mount soldering on several boards (PCB & Micron Level)
- Delivered multiple presentations to peers and also to the CEO and management team at HQ

Software QA, Trelp Santa Barbara, CA

September 2015 – December 2015

- Helped with the website for the new mobile application, Trelp, which provides truck drivers with rest spots
- Demonstrated leadership 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 – Present

- Maintaining and fixing the lab equipment in addition to helping members and lower classmen with their projects

Alpha Kappa Psi Professional Business Fraternity

September 2015 – Present

- 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
- Officially registered with the *President's Volunteer Service Award* for completion of 500+ hours of service