

# James Choi

(408)824-4123 · jameschoi721@gmail.com · jchoi00.com · Bay Area | Santa Barbara

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## OBJECTIVE

Third year electrical engineering student with industrial and research experience in Software and Hardware: Analog & Digital interested in opportunities in the Semiconductor, Software, Photonics, Automotive, and Aerospace industries

## EDUCATION

University of California, Santa Barbara (UCSB)

Bachelor of Science in *Electrical Engineering*, GPA 3.43

September 2014 - March 2018

*Technology Management Certificate*

March 2018

Coursework

EE: Circuit Design, Signal Processing, Solid State, EM Fields & Waves, Logic Design, MATLAB: Computer Vision,

C++: Advanced Problem Solving, TMP: Entrepreneurship, Materials: Structure & Properties

## HONORS

University of California, Santa Barbara

*Dean's List ('15, '16), Engineering Research/Writing Award, Harold Frank Scholar, Engineering Honors Program*

## SKILLS

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

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

## EXPERIENCE

RF Signal Integrity Intern, MACOM

June 2016 – September 2016

- Overlooked the entire engineering process in R&D, application, validation, and customer relation
- Designed different transmission line topologies using HFSS for a new 12G crosspoint switch board
- Conducted a research and built a test bench to set industry guidelines for calculating bond wire inductance
- Analyzed coupon boards taking connector and probe measurements assuring the manufacturing integrity

Undergraduate Researcher, AIM Photonics

January 2017 – Present

- Working under Professor Schow at the AIM Photonics Lab led by Professor Bowers
- Research in photonic switching, transreceivers, and packaging design

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

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