

# James Choi

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## EDUCATION

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University of California, Santa Barbara (UCSB)

Bachelor of Science in *Electrical Engineering*

*Technology Management Certificate*

September 2014 - March 2018

March 2017

## HONORS

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University of California, Santa Barbara

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

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## SKILLS

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Hardware: *VNA, Altium Designer, PCB Design, ASIC, Soldering, 3D Printing*

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

## EXPERIENCE

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Electrical Engineering Intern, MACOM

June 2016 – Present

- Signal Integrity intern overlooking the entire engineering process in R&D, validation, and customer relations
- Researching and testing wire bonding in transimpedance amplifiers and photodetectors in chipsets
- Learning and implementing designs and schematics for PCBs and ICs

Undergraduate Researcher, UCSB Experimental Cosmology Group

March 2016 – Present

- *Starshot Project* led by Professor Lubin is supported by NASA, Stephen Hawking, and Mark Zuckerberg
- Learned about laser propulsion, wafers, radio telescopes, PCB designs, and 3D printing
- Planning on doing more research in rockets, photonics, and integrated circuits

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 and most efficient directions to their arrival
- Demonstrated leadership by successfully carrying out the business plan and proposal with other colleagues

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 with patients and caretakers

## EXTRACURRICULARS

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Computer Manager, IEEE Technical Professional Organization

September 2014 – Present

- Actively maintaining and fixing the computers and 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 CA non-profit organization that brings benefits of technology to senior citizens
- The organization is officially registered with the *President's Volunteer Service Award* for completion of 500+ hours of service

## RELEVANT COURSEWORK

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ECE 130A: Signal Analysis, ECE 132: Solid State, ECE 134: EM Fields & Waves, MATRL 100A:

Structure & Properties, ECE 2A, 2B 2C: Circuits, Devices, Systems, ECE 15A: Logic Design &

Systems, TMP 122: Entrepreneurship, CS 16, 24 (C++): Advanced Problem Solving, ENGR 3

(MATLAB): Programming for Engineers, Physics 1-5: Mechanics, EM, Quantum, Special Relativity