James Choi

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EDUCATION

University of California, Santa Barbara (UCSB)
Bachelor of Science in *Electrical Engineering*   September 2014 - March 2018
Technology Management Certificate   March 2017

HONORS   University of California, Santa Barbara

Harold Frank Scholar   December 2015 - Present
Engineering Honors Program   March 2015 - Present
Dean's List   March, June 2015

SKILLS

Hardware: *Altium Designer, PCB Design, FPGA, ASIC, Soldering, 3D Printing*
Software: *MATLAB, C++, C, JavaScript, HTML, and Ruby on Rails*

EXPERIENCE

Undergraduate Researcher, UCSB Experimental Cosmology Group   March – Present 2016
- Currently building and designing circuits with FPGA's and microchips for lasers and satellites
- Planning on doing more research with photonics and integrated circuits
- *Starshot Project* led by Professor Lubin is supported by Stephen Hawking, Mark Zuckerberg, and NASA

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

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

Engineering Writing Award UCSB   May 2015
- Recognition of excellence in research and writing
- Led a team of four to successfully conduct a number of usability tests, research, and redesign of the Cuisinart Citrus Juicer CCJ-100

EXTRACURRICULARS

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

ECE 2A, 2B 2C: Circuits, Devices, Systems, ECE 152A: Digital Design, ECE 15A: Fundamentals of Logic Design, Systems, TMP 122: Technology Management: Entrepreneurship, CS 16, 24 (C++): Advanced Problem Solving, ENGR 3 (MATLAB): Programming for Engineers, ENGR 10: Exposure to Engineering Disciplines, Physics 1-5: Mechanics, E&M, Quantum, Special Relativity