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Education

University of California Santa Barbara (UCSB)

Santa Barbara, CA

B.S. IN COMPUTER SCIENCE AND PHYSICS

Sept. 2016 - Exp. Jun. 2020

- GPA: 3.84, College of Letters & Science Honours Program
- Dean's Honours in College of Letters & Science and College of Engineering

Experience_

Continental AG: High Flash LiDAR (HFL) Team

Carpinteria, CA

OPTICS INTERN AND LASER CHARACTERIZATION ENGINEER

Jun. 2018 - Oct. 2018

- Researched lasing and the optomechanics behind diode pumpled Nd:YAG lasers in LiDAR technology and responsible for improving internal diffuser and coupling optics and lead 808 nm diode COD investigations
- Independently engineered and implemented investigations on laser imaging, TEM modes, divergences, polarisations, TEC heating mechanisms, transmission spectra and in-house testing of various InGaAs/Ink optical coatings
- Developed and authored weekly presentations/reports on progress for team meetings & relevant vendors/customers

Apple Inc. Santa Barbara, CA

TECHNICAL SPECIALIST

• Provided technical support (hardware & software) for Mac, iPhones and various Apple products

ATLAS certified, and responsible for assisting customers, addressing questions and performing transactions

UCSB High Energy Physics

Goleta, CA

Undergraduate researcher

Oct. 2017 - Jun. 2018

Nov. 2017 - Apr. 2018

- Developed and debugged GEANT software for light dark matter experiment (LDMX) under Professor Incandela
- Researched under CERN and SLAC's "two electron studies" and developed electron overlap algorithms for silicon based sensors in C++, Python and ROOT

Residential Housing Association (RHA)

Goleta, CA

ADMINISTRATIVE VICE PRESIDENT

Oct. 2016-Jun. 2017

- RHA second in command, responsible for hall council organisation and correspondences
- · Co-president proxy and in command of hall budgets and relations with other resident halls

Projects_

Sound recognition and high frequency converter

Goleta, CA

Personal research within the College of Creative Studies (CCS) department, written in Python

January, 2018

- Used Raspberry Pi's ADC alongside an Arduino to produce audible sound when certain high frequency sounds are nearby
- Wrote and developed signal analysis Python libraries for Fourier analysing sounds, constructing Fourier profiles and employing machine learning techniques to match and recognise sounds

Skills & Achievements

Programming C++, Python, MIPS, LaTeX

General Computaion Linux (Ubuntu), MatLab, Mathematica, BeamGage, GitHub

Languages English (Native), Mandarin Chinese (Proficient), Bahasa Indonesia (Intermediate) **Achievements** Scored 42/45 International Baccaulaurete Points (placed top 2% worldwide)

OCTOBER 18, 2018 FRANK LEE · RÉSUMÉ