Jose Luis Santiago

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EDUCATION

University of California, Santa Cruz **September 2016-June 2021**
Bachelor of Science in Computer Engineering; Concentration: Robotics & Control **GPA: 3.05**
Honors: *UCSC: Dean's Honor Roll - Spring 2017, Winter 2021*

SKILLS

- **Programming:** Embedded C Programming, C++ Programming, Java Programming, MATLAB, Verilog, RISC-V Assembly Programming, CAD, Python, HTML, CSS, JavaScript
- **Languages:** English, Spanish (Read/Write/Speak)

PROJECTS

Bio-Inspired Locomotion: Penguin Aquaflying Wings **January 2021-March 2021**
Independent Researcher
- Researched penguin swimming kinematics to model the wing flapping motion in MATLAB
- Simulated penguin wing motion with wings of different sizes (0.8-1.8 times the size of a Gentoo Penguin Wing) to understand the correlation between wing size, lift, and drag forces
- Concluded that wing size (0.8-1.8 times the size of a Gentoo wing) is positively correlated with Lift. At larger sizes, the wing succumbs to mass and is unable to prove useful for locomotion

IoT Wildfire Alarm System **January 2021-June 2021**
Design Member
- Collaborated in a 6-person team to design an IoT Wildfire Alarm System
- Built a prototype that uses sensors integrated with a WiFi and 5G enabled microcontroller
- Analyzed parameters indicative of wildfire risk. These parameters included: CO2 levels (0-5000ppm), humidity (20-80%RH), and temperature (0-50℃)
- Led documentation of project during weekly meetings to keep team up to date on progress

EXPERIENCE

FIKA Tech Academy, LA Tech **February 2022-Present**
Scholar
- Collaborate in a 4-person team to work on projects tailored for the technology industry. Projects consisting of: soft skills, product design, marketing, sales, and venture capital/entrepreneurship

Jack Baskin School of Engineering, UC Santa Cruz **September 2018-September 2021**
Peer Adviser
- Advised over 1,000 students in their respective engineering majors by developing class schedules, providing coaching and support with coursework, and assisting students with selecting major and career pathways
- Managed and tracked confidential student data and records of student population of over 4,000 to determine student's progress and eligibility for graduation
- Acted as first point of contact and communication for over 4,000 students at the advising office
- Participated in meetings with the Peer Advisor Program Coordinator and/or other Undergraduate Student Affairs staff at least 3 times an academic year, including customer service training