

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

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

RELEVANT 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 to understand the correlation between wing size, lift, and drag forces
- We can achieve a larger Lift with larger penguin wings, but we would need motors strong enough to actuate the wing. At some point the wing will succumb to the mass and be unable to move in an optimal way to prove useful in locomotion.

IoT Wildfire Alarm System

January 2021-June 2021

Design Member

- Designed an IoT Wildfire Alarm System in a 6-person team
- Created a prototype that uses sensors integrated with a WiFi enabled microcontroller to signal wildfires risk
- Parameters of interest were: wind speed, CO_2 levels, humidity, and temperature

LEADERSHIP EXPERIENCE

Jack Baskin School of Engineering, UC Santa Cruz

September 2018-September 2021

Peer Adviser

- Helped students navigate 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 to determine student's progress and eligibility for graduation

MESA Engineering Program (MEP), UC Santa Cruz

September 2017-June 2021

Member

- Provided Peer advising and mentoring to underrepresented students in the engineering field