

Jose Luis Santiago

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EDUCATION

University of California, Santa Cruz

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 Aquaflapping Wings

January 2021-March 2021

Independent Researcher

- Researched penguin swimming kinematics to model the swimming motion in MATLAB
- Simulated penguin wing motion with wings of different sizes to understand the correlation between wing size and lift and drag forces
- Project culminated in a research paper detailing my findings from my research

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-Present

Peer Adviser

- Help 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.
- Manage and track 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