

# Basil Aranda

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## EDUCATION

### California State Polytechnic University, Pomona— B.S. Aerospace Engineering; Astronomy Minor

August 2020 - Present

- Expected Graduation May 2023
- 3.71 GPA
- American Institute of Aeronautics and Astronautics
- American Society of Mechanical Engineers
- Institution of Mechanical Engineers

## EXPERIENCE

### NASA Stennis Office of STEM Engagement — Intern

August 2021 - Present (20 Hours Per Week)

- Designed on-site experience for future NASA NCAS Scholars
- Project will be adopted at other NASA Centers for their specific NCAS programs. Project is modular and accounts for Center focus

### CubeSat Technology Exploration Project, CPP & NASA JPL — Electrical Team

February 2021 - Present (5 Hours Per Week)

- Designed and integrated electrical systems to test novel technologies
- Coalesced separate proprietary COTS platforms for successful integration

### NASA RockSat-X, Santa Clarita— Electrical Lead

November 2018 - February 2020 (5 Hours Per Week)

- Launched a cubesat to apogee to test feasibility of auto-rotation for reentry
- Self-taught PCB design, COTS integration, and electrical analysis
- Presented project at Caltech's Infrared Processing and Analysis Center

### Santa Clarita Community College District Student Trustee, Santa Clarita

April 2019 - April 2020 (20 Hours Per Week)

- Elected to represent 30,000 students as the sole student representative on the SCCC Board of Trustees
- Introduced sweeping legislation towards environmental sustainability
- Orchestrated & led student marches and demonstrations for justice, accountability, and progress

### Mathematics Engineering Science Achievement, Santa Clarita— Math, Physics, Engineering Tutor

January 2019 - August 2020 (10 Hours Per Week)

- Instructed Engineering, Calculus, and Mathematics to STEM students requiring extra guidance

## SKILLS

Systems Engineering  
Willingness to Learn  
Avionics Experience  
Rocket Propulsion Experience  
Adept with C++, Python.  
Electrical wiring, soldering, and analysis expertise  
  
Public Speaking  
Solidworks  
Autodesk Suite  
Proficient in Excel  
Adaptable & Team-focused

## AWARDS

Associates Degrees in Engineering, Mathematics, Physics, and Art  
  
Magna Cum Laude, Santa Clarita Community College District  
  
California Space Grant Consortium  
  
NASA NCAS Winner  
SCCCD Resolution MESA Director's Award  
US Presidential Volunteer Award

## LANGUAGES

C++  
Python  
Java  
MATLAB  
SolidWorks  
AutoCad  
Arduino IDE

Intermediate Spanish  
Intermediate Filipino