

Caleb J. Diaz Acevedo

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Education

University of Puerto Rico, Mayagüez CAMPUS From August 2018 - Present
B.S. in Chemical Engineering (Anticipated May 2023) GPA: 3.90/4.00

Experience

NASA Proposal Writing and Evaluation Experience (NPWEE)

Principal Investigator From May 2019 – August 2019

- **Proposed** the use of Polyester Fiber Coated with Silver doped Multi-Walled Carbon Nanotubes to protect Electronic Components from X-Ray radiation.
- Participated on a Proposal Review Board
- Presented the Program and Projects to the University Community.

NASA Lucy Student Pipeline Accelerator and Competency Enabler (L'SPACE) Academy

Engineering Design Lead From August 2018 – May 2019

- Develop a Preliminary Design Review (**PDR**) for the Aquifer & Geophysical Underground Analyzer (AGUA).
- **Design** the payload and landing mechanism. Modified a magnetometer to meet the mission's requirements.
- Awarded 3rd place Nationwide

Program for Engineering Access, Retention, and LIATS Success (PEARLS)

Member From August 2018 – Present

- Career & Educational Mentoring from Dr. Nelson Cardona (PhD in Chemical Engineering).
- Professional & Non-technical Skills Development Workshops.
- Special Courses: INGE 3002 – Introduction to Learning Community & INGE 5996 – Undergraduate Research in Engineering

Skills

Technical:

1. Basic Skills in Programming (Python)
2. Bilingual (Spanish & English)
3. Basic Skills in CAD software (AutoCAD)
4. Preliminary Design Review (PDR) & Proposal Writing
5. Basic Skills using Accounting Program (Wave)

Non-technical:

1. Leadership Skills - Small (4) and Medium (20) teams
2. Problem Solving Skills
3. Effective Communication and Organization

Honors & Awards

UPRM Honor Student Awarded: July 2019

Top 4% on the cohort of students of my admission year

NASA L'SPACE Level 2 Completion: Testing Academy Awarded: May 2019

Over 20 hours interacting with NASA officials, 8 hours of prototype testing & 40+ hours of PDR update

NASA L'SPACE Level 1 Completion: Concept Academy Awarded: December 2018

Over 18 hours interacting with NASA officials & 40+ hours working on the team's PDR