

## Bryan Acosta

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### CLEARANCE

**Access:** Active Secret Security Clearance (Granted 4/13/21). Eligible to work in the U.S. without restrictions.

### EDUCATION

**The University of Texas at Austin** - 3.18 GPA

**Expected May 2023**

Bachelor of Science, Computational Engineering

**South Texas College** - 4.0 GPA

**December 2018**

Associates in Mathematics - Summa Cum Laude Honors

### SKILLS & AWARDS

**Technical Skills:** C++, Docker, Fortran, Latex, Linux, Matlab, Python, Solidworks, Github Version Control: [GitHub Repo](#)

**Soft Skills:** Leading a Software Team, Working in a team, Teaching, Public Speaking, Event Planning, Empathetic

**Certifications:** Microsoft Office Specialist Certification, Certified Tax Preparer, OSHA Certified, CPR-Certified

**Awards:** GMIS STEM Scholar, HSF Scholar, UT Engineering Excellence Scholar x2, Ramshorn Scholar

### INTERNSHIPS

**Lockheed Martin - Advanced Development Programs (Skunk Works)** - *Software Engineering Intern* **\*Summer 2022\***

- Design & Develop embedded training and simulation software for F35 in C++ and JAVA
- Use Agile methodologies to create an effective and efficient software development environment

**Northrop Grumman Space** - *Software Engineering Intern*

**Summer 2021**

- Design, Code, and Debug a program for a (classified) military satellite constellation using C++ and Bash Scripting
- Developed requirements for each Sprint/Scrum following the Agile Software Development Process, used JIRA
- Wrote and adjudicated official documentation for the DCMA (Defense Contract Management Agency)

### RESEARCH & ORGANIZATIONS

**Texas Spacecraft Laboratory** - *Data Science Research & Development*

**Spring 2022 - Present**

- SERPENT Team (Satellite Evaluation of Relative Pose Estimation of Non-cooperative Target) doing research for & funded by the Air Force Research Laboratory. Link for more info [HERE](#).
- Write pose estimation algorithm using Machine Learning. Test and verify algorithm with Hardware in Loop

**United States Space Force** - *Student Researcher*

**Fall 2021**

- Study to identify geo-political situations, crucial issues, & effective solutions using current & future technologies
- Research how Quantum Computing will target vulnerable cyber security of satellites; provide solutions
- Presented research to USSF Chief Scientist and team; submitted paper for publication on USSF Journal

**Unmanned Aerial Vehicles at Austin** - *Chief Software Engineer*

**Fall 2020 - Fall 2021**

- Head of org's software team; planed c++ & python aerial vehicle infrastructure, collaborate with hardware team lead to ensure efficient compatibility, manage software subsystem leads, lead onboarding trainings & teach C++, GitHub Version Control, Python, JSON File Management and other relevant software skills

### COMMUNITY INVOLVEMENT

**Society of Hispanic Professional Engineers** - *Active Member*

**Fall 2019 - Present**

- National Convention Committee - Help prepare members and organize events for SHPE Convention
- Media Committee - Planned and maintained the UT-SHPE website, social media, and media
- 2019-2020 Excellence Award - "for constant involvement and embodiment of leadership development"

**First-year Interest Group for Aerospace Engineers** - *Fig Mentor*

**Spring 2020 - Present**

- Lead 2 courses for minority freshmen for transition from h.s. to engineering by offering tutoring, mentorship, and resources. 89% of first FIG recommended I return as a mentor in anonymous survey.

**IRS's Volunteer Income Tax Assistance (VITA)** - *Tax Preparer*

**Spring 2017 - Spring 2020**

- Volunteered & received award for contributions to preparing taxes for hundreds of low-income families