

Anthony Limiero

Recent AE grad with a focus on developing spaceflight hardware, embedded flight software, and mechanical design.

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(US citizen | Eligible for security clearance | Seeking full-time entry level positions | Available January 2026)

Education

Georgia Institute of Technology, College of Engineering – Atlanta, GA

Aug 2017 – May 2022

- **Bachelor of Science:** Aerospace Engineering - Highest Honors

GPA: 3.90 / 4.00

Work Experience

Georgia Tech Christian Campus Fellowship - Associate Campus Minister– Atlanta, GA

Aug 2022 - May 2025

- Managed a team of 3 interns and oversaw the ministry for all incoming freshmen
- Demonstrated strong communication skills through public speaking and small group facilitation
- Led and planned community service trips to foster leadership and community building
- Gained conversational **Spanish** while serving for 5 months in Santiago, Chile

NASA Jet Propulsion Laboratory – Software Computing System Intern – Pasadena, CA

May 2022 – Jul 2022

- Created compiler tool in Scala to generate **C++** command validation code for Mars Sample Return mission
- Developed automated unit test scripts in bash and **Python** for continuous integration procedures
- Contributed to open-source FSW frameworks FPrime and FPP used across multiple NASA missions
- Developed in Windows and Linux environments, managing version control with command line Git

NASA Goddard Space Flight Center – In-Space Assembly Intern – Greenbelt, MD

Jun 2021 – Aug 2021

- Developed concepts for robotically-assembled spacecraft harnessing by interviewing subject matter experts
- Illustrated/animated assembly CONOPS in CAD and Blender, then presented at virtual symposium

Georgia Tech Research Institute (GTRI) – Mech Engineering Student Co-op – Atlanta, GA

Aug 2019 – Jun 2021

- Conducted mechanical and electrical test engineering campaigns for avionics components on the C-5 cargo plane
- Designed mechanical test fixturing in **SolidWorks** for **vibration testing** and other requirements verification
- Generated part/assembly drawings and analyzed tolerance stackups with **GD&T** principles as per ASME Y14.5
- Ran **FEA** on servo body using SolidWorks Simulation to validate structural performance under operational loads
- Presented BOM's, assembly drawings, and test procedures/results at project stage-gate meetings (PDR, CDR)
- Used **MATLAB** and **Simulink** to simulate dynamics of aircraft servo's internal mechanical components
- Precision assembly of mechanical test fixtures using tools like torque wrenches, calipers, and micrometers
- Developed and maintained test documentation and characterized test data to determine pass/fail criteria

Research

Space Systems Design Lab (SSDL) – Georgia Tech, Atlanta, GA

Jan 2020 – May 2022

GT-2 Project Lead & Flight Software Team Lead - (1U CubeSat mission)

- Managed cross-disciplinary team of engineers in fast-paced CubeSat mission with 1 year development timeline
- Served as software team lead by training, recruiting, tasking, managing GitHub, and designing system topologies
- Coordinated with Japanese Space Agency to define requirements and formulate test plan documentation

GT-1 Flight Software Engineer - (1U CubeSat deployed from ISS in February 2022)

- Developed embedded baremetal **C/C++** for shift register drivers, I2C control of EPS, and amateur radio payload
- Implemented command and data handling and telemetry monitoring in FPrime ground station software w/ **Python**
- Debugged spacecraft bus and GSE using tools like multimeters, oscilloscopes, and logic analyzers
- Supported RF testing, vibration testing, TVAC testing, and clean room integration

Projects

- **Submersible ROV** - Fully custom robotic exploration platform for traversing underwater cave passages
 - **Skills:** Raspberry Pi, 3D printing, PCB design, electronics debugging, managing team of engineers, iterative design
- **Custom E-Trike** - Created electric trike with arduino controlled BLDC motors
 - **Skills:** Soldering, circuit design, metal working, 3D printing, C++
- **Personal Finance Web App** - Self-hosted full stack web app for managing personal finances
 - **Skills:** Python, JavaScript, Linux systems, virtual machines, unit testing
- **Many More!** - Ask about custom 3D printers, self-published novels, custom machined unicycle parts, and more!

Skills

CAD (SolidWorks, Onshape), SolidWorks PDM, FEA, GD&T, Python, MATLAB, Simulink, C++, Embedded C, Java, JavaScript, Scala, JavaScript, Git, GitHub Management, Command Line Unix, FPrime, Fpp, HTML/CSS, SQLite, Arduino, Virtual Machines, Linux, Windows, DAQ, Soldering, Oscilloscope, Logic Analyzer, Design For Manufacturing, Mechanical/Electrical Drawings, Machining (Mill, Lathe, Water Jet, Welder, Laser Cutter), 3D Printing, Jira, Control Theory, Motor Control, Microsoft Office, Spanish, Orbital Dynamics