Anthony Limiero

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

anthony@limiero.com | 661-431-7218 | linkedin.com/in/anthony-limiero/ | github.com/legounicycler | anthony.limiero.com

(US citizen | Eligible for security clearance | Seeking full-time entry level positions | Available August 2025)

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**

- Invested in students' spiritual lives through mentorship, speaking/teaching, service trips, and community building

NASA's 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 animated CONOPS for robotically-assembled spacecraft harnessing in SolidWorks and Blender

Georgia Tech Research Institute (GTRI) – Mech Engineering Student Co-op – *Atlanta, GA* **Aug 2019 – Jun 2021**

- Conducted electrical and mechanical test engineering campaigns for avionics components on the C-5 cargo plane
- Implemented sinusoidal BLDC motor control in **embedded C** & characterized performance w/ oscilloscope
- Used **MATLAB** and **Simulink** to simulate dynamics of aircraft servo's internal mechanical components
- Designed mechanical test fixturing in **SolidWorks** for **vibration testing** and other requirement verification tests
- 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
- Managed design files using **SolidWorks PDM** to maintain configuration integrity
- 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
- Presented BOM's, assembly drawings, and test procedures/results at project stage-gate meetings (PDR, CDR)

Research

Space Systems Design Lab (SSDL) – *Georgia Tech, Atlanta, GA* **Jan 2020 – May 2022**

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**

GT-2 Project Lead & FSW 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 JAXA to define requirements and integration protocols and formulate test plan documentation

Projects

- **Personal Finance Web App** - Full stack web app using **Python** and JavaScript hosted on remote Linux server
- **MATLAB Jet Engine Design Tool** - Modeled/simulated thermodynamic states of ramjets, turbofans, & turbojets
- **Submersible ROV** - Created ROV to explore underwater caves using Raspberry Pi, **custom PCB**, & 3D printing
- **E-Trike** - Created electric trike with arduino controlled BLDC motors involving soldering and simple circuit design
- **Self-Published Novels** - Co-wrote 2 young adult time-travel fantasy novels in the Son of Time Chronicles

Leadership / Volunteer Work

- **300 Mile Unicycle Ride Fundraiser** - Raised $3000 in 10 days for community leaders in impoverished south Asia
- **CCF** - Organized GT students weekly to help tutor elementary kids and pack/distribute groceries for food insecure
- **Appalachia Service Project** - Organized 2 student trips in rural Appalachia to repair homes for families in poverty

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