

Tyler Banerjee

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SUMMARY

Early career **Public Safety Unmanned Aerial Vehicle** operator with more than one year of university lab, internship, and capstone experience supporting safe UAS flight operations, public safety intelligence, and investigative workflows. Holds current **FAA Part 107 Remote Pilot Certification**, UAS Tactical Flight Fundamentals Certificate, and valid Alabama driver license. Plans missions with **flight planning software**, GPS, GIS, airspace analysis, weather review, and LAANC coordination. Captures and tags FPV and HD video, manages batteries, maintains post flight records, and documents go or no go decisions. Applies crime pattern analysis, digital evidence handling, radio communication, and clear reporting during supervised exercises. Calm judgment, accurate records, and practical field communication support safe operations and timely information for public safety teams.

EDUCATION

Bachelor's Degree in Uncrewed Aircraft Systems Flight Operations
The University of Alabama in Huntsville GPA: 3.8
Coursework: UAS flight operations, FAA regulations, GIS, public safety intelligence

2026
Huntsville, AL

TECHNICAL SKILLS

- **UAS Flight Platforms:** UAV systems, drone platforms, FPV video
- **Flight Planning:** flight planning software, route planning, contingency routes
- **FAA Compliance:** FAA Part 107, FAA regulations, UAS authorizations
- **Airspace Coordination:** LAANC, airspace structures, air traffic control procedures
- **Navigation Systems:** GPS, telemetry, geospatial coordinates
- **Imaging Systems:** HD video, thermal imaging, geospatial imagery
- **GIS Applications:** GIS mapping, spatial analysis, operational mapping
- **Public Safety Intelligence:** crime intelligence, pattern analysis, investigative leads
- **Digital Evidence:** evidence tagging, evidence preservation, source documentation
- **Data Analysis:** incident datasets, trend analysis, association analysis
- **Communications Systems:** radio communication, dispatcher coordination, field communications
- **Fleet Maintenance:** battery cycle records, inspection checklists, maintenance logs
- **Records Management:** mission records, investigative files, post flight logs
- **Emergency Operations:** incident response, emergency procedures, resource deployment
- **Safety Procedures:** go or no go decisions, flight safety, risk review

SKILLS

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|---------------------|----------------------------|--------------------------|------------------------|
| • UAS Operations | • Airspace Analysis | • Data Analytics | • Mission Logs |
| • FAA Part 107 | • Flight Planning Software | • FPV and HD Video | • Battery Management |
| • UAV Flight Safety | • GPS | • Digital Evidence | • Radio Communications |
| • LAANC | • GIS | • Crime Pattern Analysis | |

EXPERIENCE

UAS Operations Intern
AeroVista Public Safety Internship
Supported supervised **public safety** UAS operations, mission preparation, flight documentation, video collection, fleet records, and dispatcher style communication across training scenarios.

- Conducted supervised **UAS** missions using **FAA Part 107** rules, airspace checks, and weather reviews
- Prepared routes with **flight planning software**, **GPS**, and LAANC requests near controlled airspace
- Captured and tagged FPV and **HD video** during simulated search and incident response missions
- Maintained battery cycle records, inspection checklists, maintenance notes, and post flight logs
- Translated changing dispatcher requests into safe flight adjustments through clear radio communication
- Completed tactical flight drills covering precision maneuvering, emergency procedures, and calm decision making

May 2026 to September 2026
Huntsville, AL

UAS Public Safety Research Assistant
University Research Lab

September 2025 to April 2026
Huntsville, AL

Supported university research on UAS public safety applications through GIS mapping, incident analysis, evidence documentation, regulatory research, and supervised flight simulation.

- Built GIS layers combining roads, structures, incident points, and flight constraints for mission exercises
- Analyzed simulated calls and incident datasets to identify spatial **patterns** and **investigative leads**
- Recorded source details, timestamps, identifiers, and analysis notes for drone imagery evidence
- Researched **FAA** guidance, UAS standards, and **airspace structures** for supervised missions
- Tested **flight software** and GPS routes, then documented telemetry deviations during simulations
- Presented findings linking UAS data, GIS, and disciplined documentation with **situational awareness**

Public Safety UAS Mission Planning Lead

January 2025 to May 2025

Capstone Project

Huntsville, AL

Led a supervised capstone scenario covering emergency response planning, **airspace safety**, communications, aerial evidence workflows, and operational briefing delivery.

- Designed an **emergency response** scenario with mission objectives, launch criteria, communications, and evidence **preservation**
- Created **GIS** flight plans with GPS coordinates, altitude limits, and contingency routes for simulation
- Tagged aerial **video** with mission identifiers and prepared feeds for a simulated operations center
- Applied **crime pattern analysis** to connect calls, locations, and time sequences in scenario data
- Calculated route distances and battery requirements, then reviewed payload and operating limits
- Delivered a final briefing and flight demonstration covering lessons, maintenance actions, and procedural improvements

PROJECTS

Emergency Response UAS Scenario 📅 2025

Created a supervised emergency response exercise combining GIS flight planning, airspace review, radio coordination, battery calculations, video tagging, and evidence preservation.

Public Safety Intelligence Mapping 📅 2026

Built incident maps and analyzed simulated calls to identify recurring locations, spatial patterns, operational constraints, and investigative leads for review.

LEADERSHIP & AWARDS

- Dean's List recognition received during 2025 and 2026 for consistent academic performance.
- Outstanding UAS Capstone Presentation award received in 2025 after final briefing and flight demonstration.
- Student Applied Research Recognition received in 2026 for public safety UAS research contributions.

CERTIFICATIONS

- FAA Part 107 Remote Pilot Certification 📅 2026
- UAS Tactical Flight Fundamentals Certificate 📅 2026
- Valid Alabama Driver License 📅 2026

PROFESSIONAL AFFILIATIONS

- UAS Student Flight Team, Safety Coordinator, 2025 to 2026, supporting disciplined flight preparation and peer safety practices.
- Campus Emergency Management Exercise Volunteer, 2025 to 2026, supporting coordinated public safety response scenarios.
- Peer Flight Lab Mentor, 2026, helping students apply safe procedures during supervised UAS exercises.

LANGUAGES

- English (Native)
- Hindi (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST