

MATTHEW R LISS

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SUMMARY

Unmanned Aircraft Systems student combining FAA Part 107 certification, a Private Pilot Certificate, UAS flight experience, and GIS analysis. Uses ArcGIS Pro and LiDAR-derived data to connect aviation operations with terrain mapping and remote sensing.

EDUCATION

Embry-Riddle Aeronautical University | Prescott, AZ

B.S. Unmanned Aircraft Systems, UAS Pilot Track | Expected May 2027

GPA: 3.53 | GIS Certificate: Expected December 2026

CERTIFICATIONS AND FLIGHT EXPERIENCE

FAA Part 107 Remote Pilot Certificate | FAA Drone TRUST

Private Pilot Certificate: 67 total flight hours | UAS flight experience: 62 total hours

UAS AND GEOSPATIAL EXPERIENCE

UAS Operations and Technical Projects | Embry-Riddle

- Completed 62 hours of UAS flight experience through flight planning, airspace assessment, crew coordination, and UAS safety procedures.
- Mapped rooftop solar suitability in Pittsburgh by combining LiDAR-derived elevation, slope, aspect, solar radiation, and obstruction criteria in ArcGIS Pro.
- Produced terrain and imagery analysis maps using ArcGIS Pro, applying raster analysis and remote-sensing workflows to geospatial datasets.
- Generated aerial mapping products through UAS club photogrammetry and LiDAR projects, including campus mapping.

TECHNICAL SKILLS

UAS: Flight planning, mission planning, airspace management, aerial data collection, crew coordination, safety procedures

Geospatial: ArcGIS Pro, GIS, LiDAR processing, remote sensing, raster analysis, terrain analysis

LEADERSHIP

Sigma Alpha Epsilon | Embry-Riddle

Eminent Deputy Archon, Aug. 2025–Present | Recruitment Chairman, Aug. 2024–May 2025 | Social Chairman, Jan.–May 2024

- Delivered events for 100+ attendees by coordinating budgets, logistics, and risk management.
- Supported operations for a 50-member chapter through executive planning, compliance, and internal coordination.

ADDITIONAL EXPERIENCE

Allegheny Country Club | Pittsburgh, PA

Server Assistant | Apr. 2020– June 2026

- Maintained dining service during busy shifts by coordinating food delivery and member requests with servers and bartenders.