

# LITTLEBIRD Ai

## Capability Statement

Capital Project Intelligence | Building Envelope & Infrastructure Documentation

Little Bird Aerial Intelligence, Inc. · Galveston, Texas · www.littlebirdai.com · T. Elizabeth Brown, CEO · ebrown@littlebirdai.com · Koby Brown, CTO · kbrown@littlebirdai.com · 210.365.4214

## COMPANY SNAPSHOT

<b>Legal Entity</b>	Little Bird Aerial Intelligence, Inc. (DBA LittleBird)
<b>UEI/CAGE</b>	UXWLRM3MJ2V1 / 130A4
<b>SAM.gov</b>	Active, All Awards. No active exclusions. Listed in the Disaster Response Registry. No bonding required to bid.
<b>Socio-Economic</b>	SBA-Certified Woman-Owned Small Business (WOSB)
<b>NAICS</b>	541370 (primary, Surveying & Mapping) · 541380 (Testing Laboratories) · 541690 (Scientific & Technical Consulting) · 541990 (Professional Services) · 518210 (Computing Infrastructure & Data Hosting)
<b>Location</b>	Galveston, TX. Greater Houston / Gulf Coast service area, nationwide capability, deployable.

## CORE CAPABILITIES

- Building envelope documentation (roof and facade) in visible light and radiometric thermal.
- ASTM C1153 thermal moisture surveys: dusk/post-sunset radiometric IR, severity-classified, georeferenced anomaly identification by a Certified Thermographer.
- Construction oversight and progress documentation: time-stamped, independent visual records supporting percent-complete validation, change-order documentation, and schedule transparency.
- Aerial mapping and site intelligence: RTK photogrammetry, georeferenced orthomosaics, topographic and elevation models, volumetrics.
- Digital twin / 3D model generation: measurable, geometrically accurate, centimeter-level RTK precision, suitable for building inspection.
- LiDAR scanning and high-density point clouds for projects requiring detailed 3D geometry beyond photogrammetric models.
- 8K 360-degree immersive interior and exterior documentation.
- Facilities lifecycle documentation with centralized hosted portal for year-over-year access, annotation, and retrieval.
- Forensic and litigation-support data capture: evidentiary-quality records supporting retained architects, engineers, and counsel.

## SPECIALTY & EXTENDED SENSOR CAPABILITIES

Beyond the core imaging suite, LittleBird is trained through SPH Engineering, a global leader in drone-based sensor integration, to deploy a range of specialized sensors, available on a per-project basis:

- **Gas & methane detection:** leak identification, gas concentration mapping, and emissions quantification for refineries, midstream, chemical plants, and environmental compliance.
- **Ground-penetrating radar (GPR):** subsurface and utility mapping.
- **Bathymetric sonar:** depth contours, bathymetric models, and erosion analysis for ports, navigation districts, and marine terminals.
- **Magnetometer:** magnetic anomaly maps, ferrous-object location, utility tracing, and UXO survey for environmental remediation and utilities.
- **Gamma-ray spectrometer:** radiation mapping, isotope identification, and contamination-boundary delineation for nuclear and radiological remediation and regulators.

## DIFFERENTIATORS

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- Independent, defensible, inspection-grade data. LittleBird is a data provider, not an assessor, and preserves the interpretation scope of engineers.
- In-house FAA Part 107 operations with company pilots, not subcontracted.
- Proprietary operations-management platform built in-house for mission planning, airspace compliance, AI-assisted flight planning, telemetry, flight-log parsing, and centralized hosting, architected for multi-pilot, multi-market scale.
- Demonstrated institutional and regulated-environment access: controlled and complex airspace, hospital and campus security, heavy-industrial sites.
- NDAA-compliant equipment available on request.
- Gulf Coast-hardened operations with hurricane and disaster-response capability.

## PAST PERFORMANCE & ACCESS EXPERIENCE

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**Representative project:** 19 months of independent construction documentation on the Galveston ISD Ball High School South Renovation, a \$77.7M institutional capital project, from bare dirt to completion. 108 flights and 28,457 georeferenced images anchored to 3D models.

- **University of Texas System:** UT Arlington, UTSA, UT Medical Branch (UTMB).
- **Texas A&M University System:** Texas A&M University, Texas A&M Galveston, Prairie View A&M, Texas A&M Corpus Christi.
- **Texas State University System:** Lamar University.
- **Other Public Sector:** Texas Department of Criminal Justice.
- **Industrial / heavy site:** INEOS chemical plant facilities (Gulf Coast operating environment).
- **Commercial, heritage, construction:** Galveston Historical Foundation; San Luis Resort and Gulf Coast commercial operators; Zero/Six Consulting, LLC; JRJ Construction (Dallas)

## CERTIFICATIONS & INSURANCE

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- FAA Part 107 Remote Pilot Certificate (active), operated in-house.
- SBA-Certified Woman-Owned Small Business (WOSB).
- Infraspection Institute Certified Thermographer: Koby Brown, No. 18811-D. (active)
- Certified DroneDeploy Analyst.
- Commercial General Liability via Hiscox Insurance Company Inc., including small-UAS operations: \$2,000,000 each occurrence, \$2,000,000 general aggregate, \$2,000,000 personal & advertising injury, \$100,000 damage to rented premises. Additional Insured endorsement available on request.

## EQUIPMENT & TECHNOLOGY

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- 4K visible-light aerial and ground imaging platforms.
- Radiometric thermal IR sensors (640×512 minimum resolution, ASTM C1153-compliant).
- 8K 360-degree camera for spherical site documentation.
- LiDAR sensors for high-density point clouds.
- RTK photogrammetry processing; 3D model generated from every capture as standard.
- Cloud-based hosting and annotation platform for client access, retrieval, and year-over-year comparison.
- NDAA-compliant equipment available on request.

## MARKETS SERVED

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Higher education and healthcare systems; federal and public-sector facility owners; commercial real estate developers and owners; institutional facilities and capital-planning teams; construction managers and owner's representatives; building envelope consultants and forensic engineering firms.

## PRINCIPALS

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**T. Elizabeth Brown, Chief Executive Officer.** 25+ years of operations leadership. Project Coordinator on the \$77.7M Ball High School renovation, with direct experience in institutional capital-project workflows, vendor compliance tracking, OAC coordination, and bid-package management. Background in building-litigation case work and forensic engineering documentation. BS, Texas A&M University.

**Koby Brown, Chief Technology Officer.** 30+ years across software engineering, enterprise systems architecture, imaging, and data analysis. UAS pilot since 2008 and early consultant to drone-data software developers. Designed and built LittleBird's proprietary drone operations platform. Infraspction Institute Certified Thermographer. Texas A&M Class of 1997.

## CORPORATE INFORMATION

<b>Founded</b>	2024, building on principals' imaging, technology, and operations experience dating to 2001.
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