

UNION DRONES LLC, DBA

ADVANCED SITE MAPPING & DOCUMENTATION

Belfair, WA 98528

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Washington State UBI

605-793-875

Commodity Codes

- **905-04:** Aerial Photogrammetry Services
- **905-05:** Aerial Photography and Videography Services, Including Drones
- **905-10:** Aerial Surveys and Mapping Services (different from standard surveying- See 962-52)
- **035-96:** Unmanned Drones
- **035-28:** Cameras and Accessories, Aerial Photography

Socioeconomic Certifications

- SBE
- PWSBE

Credit Cards Accepted



Capabilities Statement

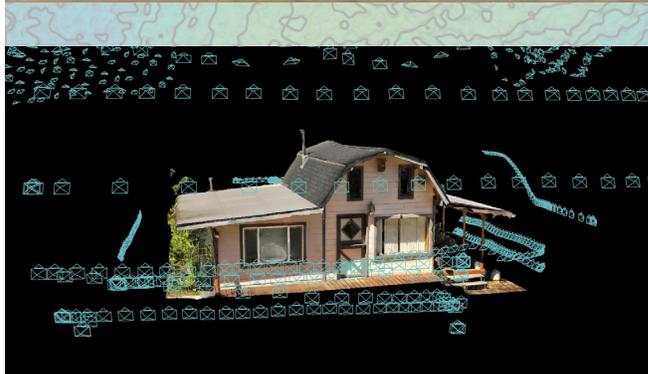
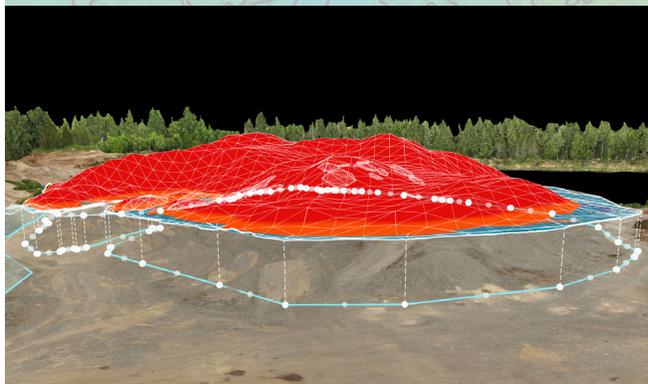
Union Drones LLC is a provider of FAA-certified aerial and ground-based data services supporting the Architecture, Engineering, and Construction (AEC) industry, environmental consultants, and public sector clients. We specialize in high-precision visual, thermal, and geospatial site documentation that enhances site planning, inspection, and reporting workflows while improving site and worker safety.

Core Competencies

- ✓ FAA Part 107 certified and insured drone operations for site data collection
- ✓ Ground control point (GCP) integration using RTK/PPK GNSS positioning (Emlid RS3 + OPUS)
- ✓ Photogrammetric 3D models with CAD/BIM exports for as-built documentation
- ✓ Volumetric analysis for quarry and site resource management
- ✓ Thermal imaging and radiometric roof, building, and infrastructure inspections
- ✓ Digital Terrain Models (DTM), Digital Surface Models (DSM), and Canopy Height Models (CHM)
- ✓ Environmental and site condition documentation for erosion and vegetation monitoring
- ✓ CAD and GIS-ready exports for AutoCAD, Revit, SketchUp, and GIS platforms
- ✓ DroneDeploy, PIX4D, WebODM, QGIS, CloudCompare, Adobe Suite, and other workflows

Experience

- **Existing Conditions Mapping**
(Wider, WA Jan 2025 to Present) - RGB & thermal orthomosaic imagery and 3D modeling
- **Thermal & Visible Inspections**
(Wider, WA Jan 2025 to Present) - reporting for Residential and Commercial structures and sites
- **Quarry Mapping**
(Mason County, WA Jan 2025 to Present) - DTM, DSM, volume and slope analysis
- **Forestry/Vegetation Scanning**
(Wider, WA Jan 2025 to Present) - Visible-spectrum and thermal drone imaging used to assess canopy health, heat stress, and stand conditions
- **Geospatial Control & Mapping Support**
(Wider, WA Jan 2025 to Present) - Aerial and ground data capture with GNSS control points, RTK/PPK positioning, OPUS processing, and GCP-tagged imagery
- **Masters of Architecture, University of Colorado**
- **25+ Years Experience in the AEC Industry**





Disclaimer:
This map is for informational and illustrative purposes only. It is not a legal survey and should not be used to establish property boundaries or for legal decision-making. For accurate boundary information, consult a licensed land surveyor.

Project Information
C:\Users\jason\OneDrive\Documents\Projects\2023\05\05_Orthomosaic\05_Orthomosaic.dwg
Date: Jun 30, 2023
Drawing: L of 2

Orthomosaic

Sheet
S-1

Industry Certifications and Licenses

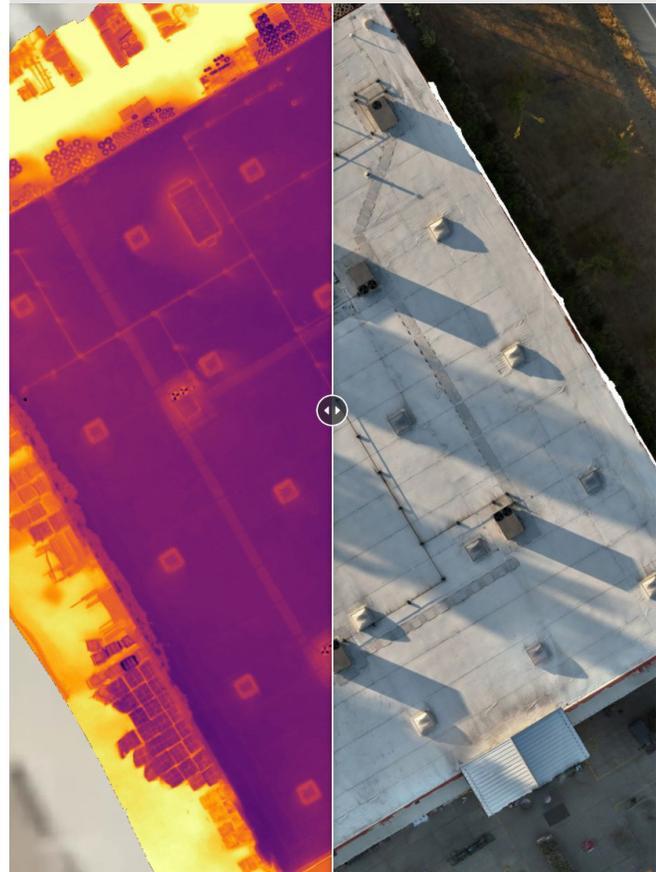
- FAA Part 107 Certification
- Licensed and Insured Operations
- Flir ITC sUAS Level 1 Thermographer Certification
- FEMA ICS 100 & ICS 700
- OSHA 10 Hour Construction Training

Professional Organizations

- APSA (Airborne Public Safety Association, Inc.)

Differentiators

- 25+ years AEC experience informing construction documentation workflows
- RTK/PPK GNSS workflows supporting sub-inch mapping accuracy
- FAA Part 107 Subpart D Category 2 compliant operations over people
- Visual, thermal, and terrain modeling integrated into AEC workflows
- Deliverables designed for CAD, GIS, and 3D engineering environments
- Flexible subcontractor for teaming, pilot support, and small scopes
- Rapid field-to-deliverable workflow for time-sensitive projects
- Thermal and high-resolution aerial imaging for SAR support



From As-Is to As-Built — Accurate Project Documentation at Every Phase

