

UNION DRONES LLC

Belfair, WA 98528

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Title: Business Development

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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 (Pending)

Credit Cards Accepted



Capabilities Statement

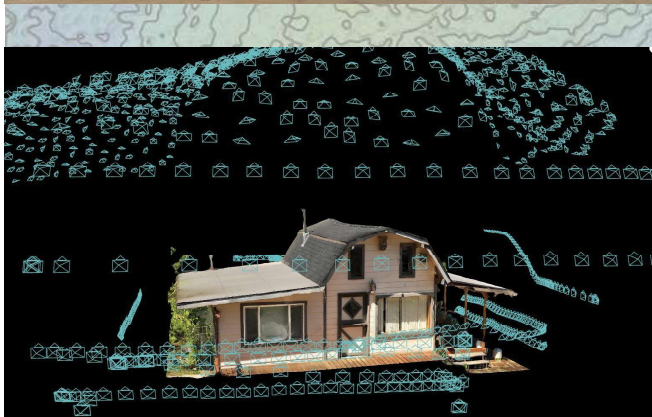
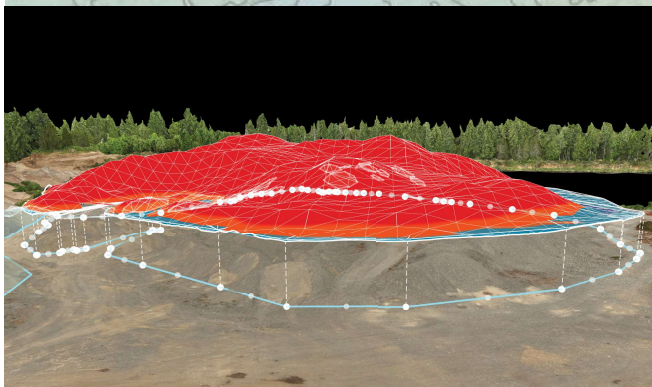
Union Drones LLC is a provider of FAA-certified aerial and ground-based data services, supporting the Architecture, Engineering, and Construction (AEC) industry, environmental consultant, and public sector clients. We specialize in high-precision visual, thermal, and geospatial documentation support 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 aerial data collection
- ✓ Ground control point (GCP) integration using RTK/PPK GNSS receivers (Emlid RS3 + OPUS)
- ✓ Photogrammetric 3D mesh production and CAD export for AEC BIM applications
- ✓ Volumetric analysis for quarry and resource management sites
- ✓ Thermal imaging and radiometric roof, building, and infrastructure inspections
- ✓ Digital Terrain Models (DTM), Surface Models (DSM), and Canopy Height Models (CHM)
- ✓ Environmental documentation for erosion, canopy density, and site condition monitoring
- ✓ GIS-ready exports for GIS, AutoCAD, Revit, and SketchUp, and other environments
- ✓ DroneDeploy, WebODM, QGIS, CloudCompare, Adobe Suite, and many others

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-based data collection with GNSS-enabled control points. Used RTK/PPK positioning, OPUS processing, and GCP-tagged imagery
- **Masters of Architecture, University of Colorado**
- **25+ Years Experience in the AEC Industry**





0 10 20 30 40 50 60 70 80 90 100 ft



Disclaimer:
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Project Information:
Client: [Redacted]
Location: [Redacted]
Date: [Redacted]

Orthomosaic

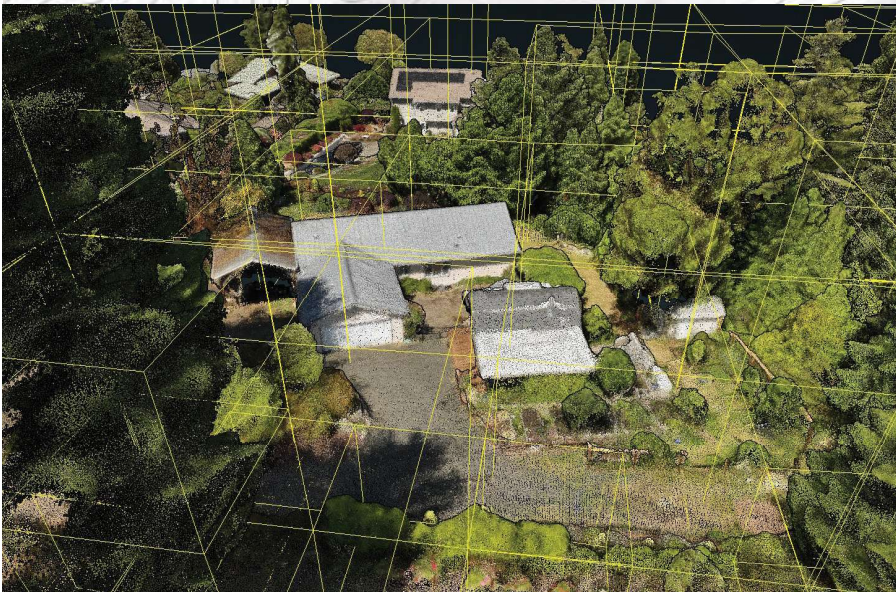
Sheet S-1
Date: [Redacted]
Version: [Redacted]

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

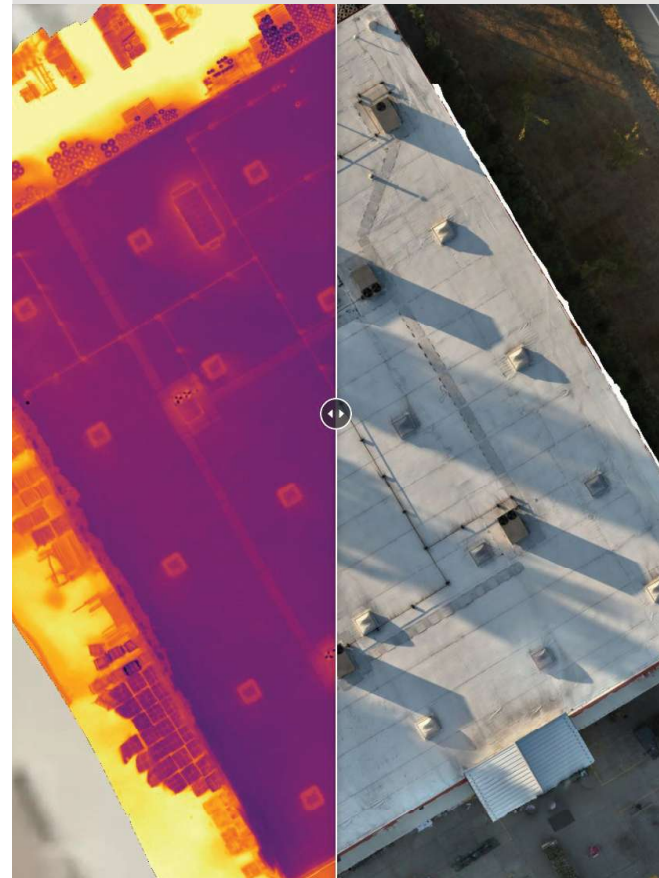
Professional Organizations

- APSA (Airborne Public Safety Association, Inc.)



Differentiators

- GNSS integration for sub-inch mapping accuracy
- Experience with visual, thermal, and terrain modeling in AEC workflows
- Strong understanding of CAD, GIS, and 3D export environments
- Flexible subcontractor available for teaming and small scopes
- Project delivery in client-ready, professional formats
- Fast turnaround workflow from field to deliverable
- Support for SAR operations with thermal + high-resolution aerial imaging



Deliverables you can build on — terrain-ready, client-ready, contract-ready.

