

WinTec Arrowmaker, Inc.

ASTRO Contract Capability Overview



Company Overview & Strategic Positioning

Company Snapshot

- Founded 1991 — 32 years continuous DoD mission support
- Service-Disabled Veteran-Owned Small Business (SDVOSB)
- 37 employees / 59 % veteran workforce
- Two core lines: **Professional Services | Tech Development, Acquisition & Integration**

Facilities & Infrastructure

- **HQ — Fort Washington, MD** (Top-Secret FC w/ Secret safeguarding)
- **Prototype Maintenance Facility — Tampa, FL** 20,000 + sq ft (Top-Secret FC w/ Secret Safeguarding)
 - HAAS TM-2P & TM-1P CNC machines
 - Electronics lab, SMT pick-and-place machine, SLS & FDM 3-D printing
 - Indoor flight-test bay & 30-seat secure briefing room
 - Dual fiber networks & sensitive items storage vault

Certifications & Compliance

- AS9100D • ISO 9001:2015
- DCMA INST 8210.1C-compliant flight & ground ops
- 100 % Part 107-certified S-UAS pilots
- ITAR-registered manufacturer | CMMC-Level 2 ready

ASTRO Contract Footprint

- **Prime Small Business** in: Data Ops
- **Small-business vendor in:** (Aviation • Dev/SI • Mission Ops • Support • Aviation • Maritime • Space • R&D)
- Awarded \$61M ESTATS Task Ops in Data Ops pool

Notable Customers & Programs

- DEVCOM C5ISR Center • ASA(ALT) Adaptive Red Team • DARPA • DIU
- USSOCOM — RAA VAK, ALFPK programs of record • Commercial Product Development: Puma Launcher
- US Army SUAS PdO depot maintenance • USCG shipboard C-UAS trials



Small-Business Agility = Government Value

- Average 28-day contract-to-kickoff timeline
- Record: 120 days concept-to-field (RAA VAK, 2015)

Quality Management System

- **AS9100D** – aerospace quality standard (recertified May 2024)
- **ISO 9001:2015** – enterprise-wide process control & continual improvement
- 5 internal audits • 0 major CARs in last 3 surveillance audits

Flight Operations & Airworthiness

- DCMA INST 8210.1C compliant flight & ground OPS manual
- 100 % of SUAS pilots are FAA **Part 107**
- Aviation Safety Officer on staff

Facility Security & Export Control

- **Top-Secret Facility Clearance** w/ Secret safeguarding (MD & FL)
- Closed-area brief room (30 seats)
- ITAR-registered manufacturer | DDTC registration M39021

Environmental, Health & Safety

- HAZMAT (49 CFR Part 172) certified shippers
- 0 lost-time incidents (LTI) — rolling 5-yr record

Cyber & Data Assurance

- NIST SP 800-171 compliant; **CMMC Level 2** ready (gap-closure Q4 FY25)
- Dual-fiber networks & encrypted mobile nodes



Zero Class-A mishaps across 90 K+ SUAS sorties
100 % on-time contractual deliveries since 2019
0 Major Corrective Actions in DCMA, DCSA, or ISO audits

ASTRO Pool-to-Capability Crosswalk

ASTRO Pool	WinTec Capability/Proven Work Package
Data Operations	<ul style="list-style-type: none"> • MATS / MATS Lite — live 900 MHz or cellular tracking • SpyGlass + WinTAK ingestion, Cursor-on-Target output • 3-D replay & analytics generated < 3 hr post-mission
Mission Operations	<ul style="list-style-type: none"> • 64 operational-assessment events since 2011 • Up to 8 pilot teams, 90+ sorties/day (urban C-UAS) • Full JELC planning → execution → AAR cycle
Development / Systems Integration	<ul style="list-style-type: none"> • Patented Puma Tactical Launcher (500 units fielded) • RAA VAK & ALFPK rapid-field kits (<120 days) • SpyGlass-to-ATAK migration & sensor plug-ins
Support	<ul style="list-style-type: none"> • Cradle-to-grave site setup, logistics, comms, power • Frequency management & airspace coordination • Depot-level Raven/Puma maintenance
Aviation	<ul style="list-style-type: none"> • 225 + S-UAS airframes / 165 models maintained • DCMA 8210.1C ops manual • 100 % Part 107 pilots • Red/Blue/White cell flight ops & swarming
Maritime	<ul style="list-style-type: none"> • USCG shipboard C-UAS trials (2024) • Over-water launch & recovery profiles • RF propagation & data-capture for cutters
Space	<ul style="list-style-type: none"> • Aerostat & fast-mover surrogates for space-sensor demos • SATCOM/BGAN links integrated into SpyGlass COP • Balloon/LOE support for upper-air testing
Research & Development	<ul style="list-style-type: none"> • In-house CNC, SLS/FDM 3-D print, pick-&-place PCB • 10 + prototypes fielded in ≤120 days • Iterative hardware/software design & test
Ground	<ul style="list-style-type: none"> • Mobile Operations Center & prime mover; RZR 4-900 ATV fleet • ALFPK force-protection kit integrates radars, cameras, Unattended Ground Sensors • SAMS low-cost security system (SMS alerts, camera cues)
Training	<ul style="list-style-type: none"> • Trained 800 + S-UAS operators / instructors; 11 000 + flight-hrs • Developed POIs for AFSOC & Army S-UAS programs

Small-Business Prime (Data Ops)
Qualified SB vendor in nine pools
 (• Dev/SI • Mission Ops • Support
 • Aviation • Maritime • Space • R&D)

Prototype Maintenance Facility (PMF) — Tampa, FL

- 20,000 + sq ft office / industrial / storage — 10 min from MacDill AFB & USSOCOM
- 9,000 sq ft high-bay for R&D, flight-line build-ups, light manufacturing
- Top-Secret FC with Secret safeguarding | 30-seat secure briefing room

Prototype Success Stories

- **Puma Tactical Launcher** — patented; > 500 units to SOCOM, USAF, US Army, partner nations
- **RAA VAK** — concept-to-theater in 120 days; credited with 1,100 + ISIL KIA; USSOCOM PoR
- **ALFPK** — first prototype to Afghanistan in 10 months; 16 LRIP kits 6 months later
- **MATS / MATS Lite** — low-cost 900 MHz & cellular trackers; COT-compliant feeds
- **SAMS Kit** — <\$40 K build, fielded in 6 weeks for OCONUS security

Tooling & Labs

- Two **HAAS CNC mills** — TM-2P (3-axis, 20-tool) & TM-1P (4-axis, Renishaw probe)
- Electronics lab + Neoden vision pick-and-place, SMT rework, KiCAD PCB design
- SLS & FDM 3-D printers, 3-D scanner for reverse-engineering

Integrated Disciplines

- Mechanical & electrical design • Embedded SW • Network test bed
- Flight-test dept. (indoor & outdoor) • Logistics & kitting for LRIP



Rapid-Fielding Metrics

- Concept → field ≤ **120 days** (RAA VAK)
- **6 wks** build-to-field (SAMS)
- **500 +** launchers produced on-site
- Avg. **28 days** contract-award to NTP for proto jobs

Fleet & Pilots

- **46** S-UAS models • **225** total airframes in active inventory
- **165** airframes maintained (full depot-level)
- 100 % FAA Part 107-certified pilots; key team TS-cleared

Operational Tempo & Environments

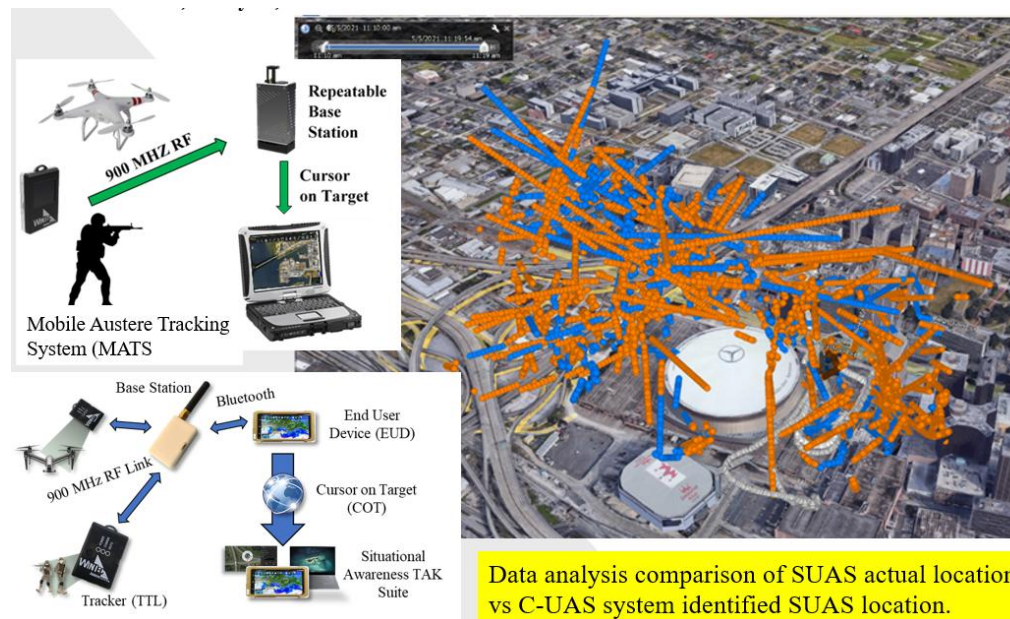
- Up to **8 pilot teams** deployed simultaneously; surge to swarming missions
- 90 + sorties/day achieved during urban C-UAS events (NOLA, SD, Austin)
- Dense urban, desert, maritime, shipboard, and austere range ops

Flight Modes & Payloads

- FPV, Day/Night EO-IR, Autonomous RF-dark, Tactical below-obstacle, Formation/Swarm
- Payloads: 180x zoom EO-IR, drop boxes, liquid sprayers, paintball, MPU-5 repeater

Data Links & RF Adaptability

- Lightbridge 1/2 • Ocusync • CONNEX • MAVLink • analog FM
- Alternate command links flown: 1.3 GHz, 433 MHz, 72 MHz, 35 MHz, 4 G LTE
- Proven tactics against RF & GPS jamming, kinetic & capture defeat systems



Mission Metrics

- 18 Counter-UAS events since 2022
- 64 total tech-assessment events since 2011
- 8-team swarms, multi-axis attack profiles

Scope & Duration

- **145** technology-assessment / test-&-evaluation events supported since 2011
- **18** dedicated C-UAS events (urban + open-range)
- Continuous support to Army C5ISR Center TSOA series (44 iterations)

End-User Portfolio

- ASA(ALT) Adaptive Red Team • DEVCOM C5ISR Center • DARPA
- DIU • Joint Staff J8 JIAMDOD • DHS • Army AWG
- USSOCOM • USCG



Core Services (JELC Lifecycle)

- Mission analysis, site surveys, concept CONOPS & scenario scripting
- Frequency management., airspace coord., power & network architecture
- Full deployment kit: comms, generators, S-UAS, MATS trackers, COP SW
- Live data capture → 3-D replay, after-action reporting within **72 hr**

Operational Metrics

- 90 + daily sorties sustained (urban CUAS)
- 250 + planners & operators trained/year
- 3 hrs — MATS data → Google Earth 3-D replay
- 0 schedule slips across 64 events

Representative Locations

- Dense Urban: New Orleans, San Diego, Austin, Washington DC
- Ranges: Yuma PG, White Sands MR, Fort A.P Hill, Camp Roberts
- Maritime: USCG cutter trials, Cape Canaveral FL
- Austere & Desert: Playas NM, Muscatatuck IN, Camp Dawson WV

Core Products (WinTec-Built)

- **SpyGlass** – open-architecture C2 / COP, first app to digitally control S-UAS
- **Android Moving Map** → direct precursor to **ATAK** (WinTec port)
- **WinTAK v1** – Windows/Touch UI coded under ARL III task order
- Continuous SpyGlass Touch branch to support field experimentation

Enterprise Integration & Outputs

- COT, KML/KMZ, JSON, 900 MHz TTL streams into TAK / JBC-P / AF-C2 nodes
- TAK Integration: RAA VAK, ALFPK, SAMS, **MATS / MATS Lite** trackers
- Real-time ingest of EO/IR, radar, UGS, and S-UAS telemetry → single COP

Data-Ops Automation

- Auto-parser maps S-UAS flight logs to 3-D Google Earth replay < 3 hr post-event
- In-field MESH networking kit (Wave Relay / MANET) for disconnected ops
- Live TAK chat rooms, geo-fenced alerts, SMS/e-mail push from SAMS & ALFPK kits



Software Milestones

- 15 yr lineage → SpyGlass → ATAK → WinTAK
- 150 K+ lines of code maintained (C++, Java, C#)
- 0 Critical CVEs open > 30 days (rolling 3 yrs)
- 3 hr → raw sensor logs → 3-D replay & AAR graphics

Cyber & DevSecOps Posture

- Source hosted in GitLab w/ SAST & DAST pipelines; D12E repo mirror
- SBOM delivered w/ every build

WinTec Value Proposition

Single-Vendor ASTRO Coverage

- **Prime SB** in Data– **Small-business vendor** in Aviation, Dev/SI, Mission Ops, Support, Aviation, Maritime, Space, R&D
- Government gets all 10 pools with one contract

Field-Proven Results

- 145 operational-assessment events | 18 Counter-UAS campaigns since 2011
- 90 K+ S-UAS sorties

Rapid Prototyping & Delivery

- Concept → field **≤120 days** (RAA VAK; SAMS ≤6 wks)
- In-house CNC, 3-D print, pick-and-place; no third-party lag

Combat-Validated Hardware & SW

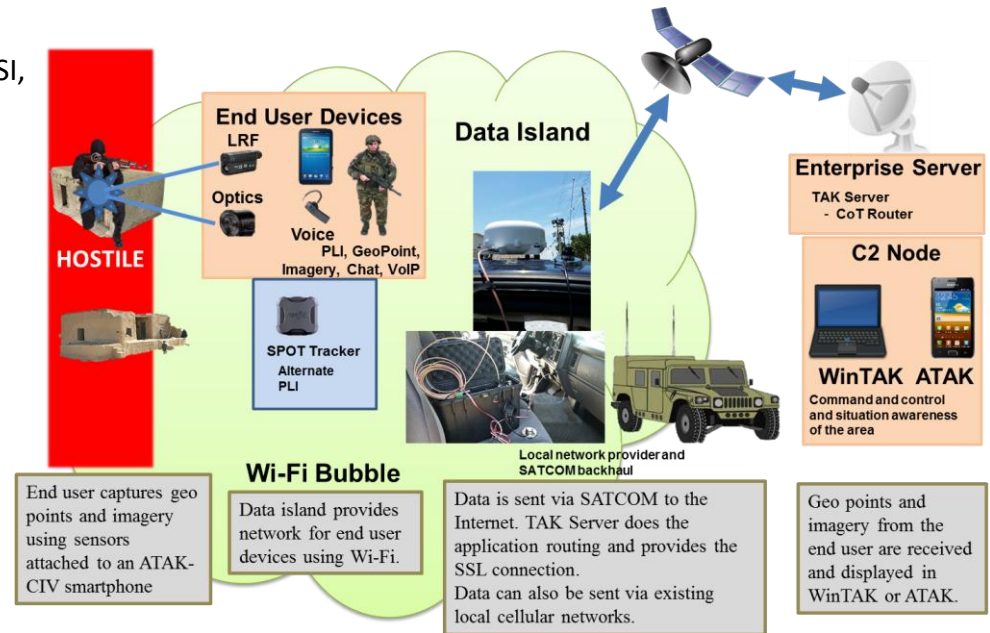
- Puma Tactical Launcher (patented, 500 + units)
- RAA VAK credited with **1,100+ ISIL KIA** in first 10 months
- SpyGlass → ATAK → WinTAK lineage – Government standard COP

Lean SDVOSB Cost Structure

- Agile award-to-NTP: average **28 days** for task starts

Certified, Cleared & Secure

- AS9100D | ISO 9001:2015 | Top-Secret FC | DCMA 8210.1C flight ops



Solutions That Matter – Key Stats

- **500 +** launchers fielded
- **1,100 +** enemy KIA enabled (RAA VAK)
- **90 K** sorties

Veteran Talent & Strategic Location

- 59 % veteran workforce – deep SOF, C5ISR pedigree & military aviation experience
- Tampa PMF <10 min to USSOCOM & MacDill AFB

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