HAYSTAC CAPABILITIES OVERVIEW

Areté POC
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EXCELLENCE

• An integrated innovation engine that provides exceptional value

• A multi-disciplinary, world-class workforce that solves problems in original ways

• Ethical, professional, client and problem focused

CORE COMPETENCIES

• Detecting weak signals in heavy clutter with low false alarms.

• Low-SWaP sensors with real-time fusion for multiple domains

• Merging AI with Physics-based domain understanding

• Extracting maximum performance from systems

DESCRIPTION

• Employee-Owned w/ Small Business status

• 350 employees, 70% w/ advanced degrees

• Eight Locations: AL, AZ, CA, CO, FL, VA: six SCI or TS capable

• 250K sq.ft. lab/office/production capacity; QMS is AS9100/ISO-9001 Certified.

• > 40 years of government experience

APPROACH

• Rapid, creative, end-to-end development

• Discover: A science and technology engine advancing state-of-the-art sensing: over 40 patents in force; 30+ Active SBIRs

• Develop: A responsive collaborator rapidly maturing prototype system solutions for new and existing sensors

• Deliver: Reliable producer of high-performance systems; typically low-SWaP
Northridge, CA (HQs)
San Diego, CA
Longmont, CO
Tucson, AZ
Valparaiso, FL
Huntsville, AL
Chantilly, VA
Arlington, VA

* AZ, FL, CO Locations: Quality Management System (QMS) is AS9100D & ISO-9001 Certified
Capabilities

Artificial Intelligence
Low Size, Weight, Power Sensors
Real-Time Processing
Remote Sensing
Deep Analytics
Networked Surveillance
Weak Signals Intelligence Applications
Models and Simulation
Field Tests & Measurements
Rapid Prototyping
System Integration
Production
HAYSTAC Teaming

• Currently have capabilities in
  • Deep Learning predictive analytics
    • Future pose in hypothetical sensor
    • Likelihood of future location
  • Track kinematic trajectory analysis for subtle behavior identification
    • Pairwise behavior extractions give indication between object interactions and intent
  • Maintaining object custody between locations, sensors, and modalities
  • Software for real-time target tracking and kinematic extractions

• Seeking teaming with complementary capabilities in
  • Human behavioral science
  • Transportation Science
  • Agent-based Modeling
  • Microsimulations