CAPABILITY STATEMENT

DUNS: 079398783
CAGE: 74Z22
STATUS: Economically Disadvantaged Woman-Owned Small Business

CURRENT CONTRACTS

US Navy SeaPort-e Prime
Number: N00178-15-D-8188
Scope: All 7 Zones and 22 Functional Areas

US Navy SeaPort-e NxG
Number: N00178-19-D-7583
Scope: Engineering and Program Management Services

US Small Business Administration
Number: SBAHQ-14-C-0010
Scope: Business and Engineering Services for the Autonomous and Unmanned Systems Regional Innovation Cluster

NASA
Number: SAA2-403095
Scope: Research, Development, Testing, and Evaluation of a UAS Traffic Management System

PAST PERFORMANCE

Department of Energy
Number: DE-NA0003331
Scope: Robotic Target Training Vehicles

US Special Operations Command
Number: H92236-17-P-4014
Number: H92236-17-P-4022
Scope: UAS and Sensors

Lockheed Martin
Number: 6574003595
Scope: Human Systems Integration Training

US Special Operations Command
Number: H92240-17-P-0191
Scope: UAS and Sensors

Emerging Technology Ventures Inc. (ETV) is an engineering, design, prototyping, and integration services company that provides custom autonomous system solutions and data analytics for defense, public safety, agriculture, critical infrastructure protection & inspection, and environmental management. Our leading-edge solutions are used to conduct mission-critical intelligence, surveillance, and reconnaissance operations, inspect and assess national infrastructure including wind farms and dams, enable cost-effective precision agriculture on small and mid-size farms, and provide a time-critical response to both man-made and natural disasters.

COMMITTED EXPERTS Our leadership team has over 50 years of combined experience in robotics and autonomous systems across the Department of Defense and commercial industry in research & development, program management, manufacturing, and life-cycle management.

MULTI-DISCIPLINED TEAM Our engineering team provides the full spectrum of electrical, software, mechanical, manufacturing, and system engineering support for a customer-centric design approach.

FLEXIBLE, SCALABLE ARCHITECTURE Our architecture supports collaborative, cross-domain (air, ground, maritime) solutions for operations in complex environments. The architecture is also scalable for human-robot interaction realizing that many real-world applications will employ human-robot teams for task execution.

LEADING-EDGE TECHNOLOGY Our team maintains strategic relationships with academia and the national laboratories to commercialize the latest enabling technologies for continued capability growth in autonomous operations.

NAICS CODES

334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
336411	Aircraft Manufacturing
336413	Other Aircraft Parts and Auxiliary Equipment Manufacturing
336414	Guided Missile and Space Vehicle Manufacturing
453998	All Other Miscellaneous Store Retailers (Except Tobacco Stores)
541330	Engineering Services
541511	Custom Computer Programming Services
541512	Computer Systems Design Services
541611	Administrative Management and General Management Consulting Services
541618	Other Management Consulting Services
541690	Other Scientific and Technical Consulting Services
541715	Research and Development in the Physical, Engineering, and Life Sciences (Except Nanotechnology and Biotechnology)
611430	Professional and Management Development Training
611512	Flight Training
811219	Other Electronic and Precision Equipment Repair and Maintenance

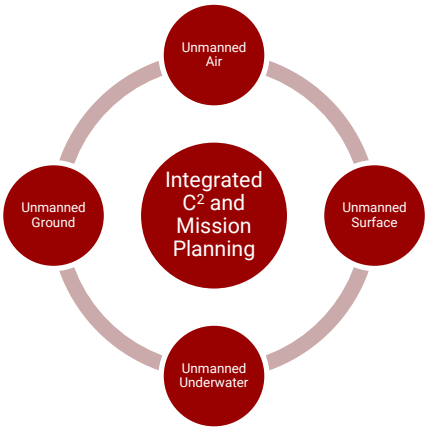
Building an IP Portfolio on the Leading Edge of Autonomous System Applications

COMMAND AND CONTROL (C2) AND MISSION PLANNING

Defense

Precision Agriculture

Maritime Operations



Infrastructure Protection

Logistics

Environmental Management

FEATURES

- Collaborative, Cross-Domain Team Autonomy
- Open Architecture
  - Robotic Operating System (ROS)
  - Structured Mission Threads
  - OpenCV and Machine Learning with TensorFlow
- Scalable Autonomy at the Platform Level
  - Human Systems Interface
  - Reduced Staffing
  - Dynamic Planning
  - Multi-Vehicle Control
  - Human-Robot Teaming Integration

DATA, ANALYTICS, AND PROGNOSTICS

Sandia National Laboratories

NMSBA
Los Alamos National Laboratory
Sandia National Laboratories

NASA

CERTIFIED NEW MEXICO true 100% MADE IN NM

THRUSTS

- Integrated UAS Sensor Suite for Wind Turbine Inspection
  - NMSBA-Sponsored with Sandia National Laboratories
  - Collects Multi-Spectral Data Set Including Acoustic, Thermal, Electro-Optic, and LiDAR
  - Data Supports Development of Prognostic Capability for Condition-Based Maintenance of Wind Turbines
- Smart Battery Management System
  - NMSBA-Sponsored with Sandia National Laboratories
  - Collects Battery State-of-Health for a Variety of Battery Chemistries
  - Data Supports Development of Prognostic Capability for C2 and Mission Planning for Autonomous Systems
- Prognostics
  - Utilizes NASA Licensed Technology
  - Algorithms Enabled Prognostics and Predictive Analytics to Support Condition-Based Maintenance and Dynamic C2 and Mission Planning
  - Cloud-Based and Embedded Solutions Support the Full-Spectrum of Applications

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