Capability Statement

Core Competencies:

Corvus Labs, LLC possesses the wide range of diverse skill sets needed to safely and robustly apply the potential of **artificial and machine intelligence** to a variety of customer needs with **testing and evaluation** integrated throughout the entire development lifecycle

Software Development

- Real-Time Multimodal, Multi-Spectral Computer & Machine Vision
 - 2D/3D Object Detection with Custom Neural Network Architectures
 - Tracking, Recognition/Classification, Re-identification, and Segmentation
 - o SLAM
 - o Aimpoint Selection
 - o Radiometric Camera Calibration
 - o Target Localization
- Online Sensor Fusion & Data Association (Stable Multi-Object Tracking Across Multiple Types of Sensors with Unique Target Identifications)
- Modeling & Simulation
 - Edge to Cloud/Platform in the Loop Simulation
 - Synthetic Data Generation
 - o 3D Reconstruction
 - o Physics-Based Motion Modeling
 - o Probabilistic Modeling
 - Model Quantization
- Low Latency Sensor Streaming/Remote Teleoperation with Real-Time Quality of Service Requirements over LTE, Wi-Fi, and Other Networking Technologies (Command and Control)

Hardware Design & Development

- High-Performance Computing/Distributed Computing with Hardware Acceleration (GP-GPU/FPGA) (Including Custom Computing System Designs)
- Multi-Robot System Design/Development
 - Mechatronics
 - Sensor Suite Selection
 - Software Architecture
 - Cloud Robotics



CORVUS LABS

Company Data:

CAGE: 8NBV6

UEI: GBUCTSXV4D65

DUNS: 117538262

SBC ID: SBC_001975275

VA SCC ID: S7983812

Tax ID: 82-4258042



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Supplier Diversity Strengthens the Commonwealth by the Virginia Department of Small Business & Supplier Diversity

Key Customers / Collaborative Partners / Memberships:



VIPC VIRGINIA INNOVATION PARTNERSHIP CORPORATION

Connecting Innovators with Opportunity



















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