

2022 ENCOUNTERING INNOVATION BLUF STATEMENTS

OPERATIONS AND MISSION SUPPORT

Crafty Cart USA LLC	Alternative Access Split Platform Utility Trailer	Crafty Cart is a revolutionary, patent pending, utility trailer which is designed to deliver goods and services to location in a compact, fuel-efficient design. Once on-site Crafty Cart opens to surround the user with the wares and tools needed to complete the job. Crafty Cart can go where comparable vehicles can't go because of their limited flexibility to deliver only to areas that can accommodate their size and rigid form. While initially designed for food and beverage service, Crafty Cart's design makes in an ideal tool for service providers, vendors, and as a platform for various military applications.
Radiation Detection Technologies	ARGANOT – Area Radiation Gamma and Neutron Origin Telemetry	<p>The device is called ARGANOT and stands for Area Radiation Gamma and Neutron Origin Telemetry. ARGANOT systems perform radioisotope source alarming, localization, identification, and dose monitoring. This device is accurate stand-alone, and very accurate when networked to identify and locate special nuclear materials. ARGANOT is a reconfigurable (wearable, UAS, UGV, ...) module that provides neutron and gamma-ray spectroscopy within a single package. The cutting-edge DS-MSNDs sensors provide neutron detection and Srl or Csl scintillators are used for gamma-ray spectroscopy. The modules can be operated standalone or with other ARGANOT modules as a wearable/ hive/ ... detector system. The ARGANOT detectors can be configured to operate wireless or in a wired/low-RF modes.</p> <p>The ARGANOT modules are the lowest profile, networkable, neutron/gamma detectors available. Both overt and covert radiation detection operations can be performed with these detectors. In-place area monitoring is also possible by operation in standalone mode (e.g. deployed at entry/exit points or radiation facilities to monitor movement of radioactive material).</p>
Tac-Alert LLC	Directional, Hands-free, Wearable Personal Radiation Detector for First Responders	Radiological/nuclear detection is an essential component to homeland security and emergency response. Tac-Alert's patented wearable technology addresses four main problems expressed by first responders with current equipment: (1) simple user interface allows for covert surveillance; (2) higher sensitivity permits users to detect sources faster and from greater distances; (3) easy operation with minimal training and retraining; and (4) built-in directionality automatically locates the source. Tac-Alert's emerging technology has already received multiple military endorsements and will

		debut as a hands-free wearable with optional smart phone app. Our technology capabilities directly align with three Department of Homeland Security mission goals.
Greg and Ted Pease	Visual Human Behavioral Detection Using AI and Skeletonization Data	This technology improves operational security and protects the warfighter by using video systems, combined with artificial intelligence, to detect and predict behavioral outcomes and more quickly assess threats. The system can be used to detect abnormal behaviors in the humans it monitors such as swimmer and drowning detection and internal/external human threats (active shooter). It reduces security lapses due to fatigue and human error. The technology operates 24/7/365 with minimal human interaction and can be deployed via fixed installations or remote systems such as drones or human piloted vehicles.