

FOR IMMEDIATE RELEASE

VectorNav Technologies VN-100 IMU/AHRS Integrated into Neya Systems' UxAB platform for AEODRS Program

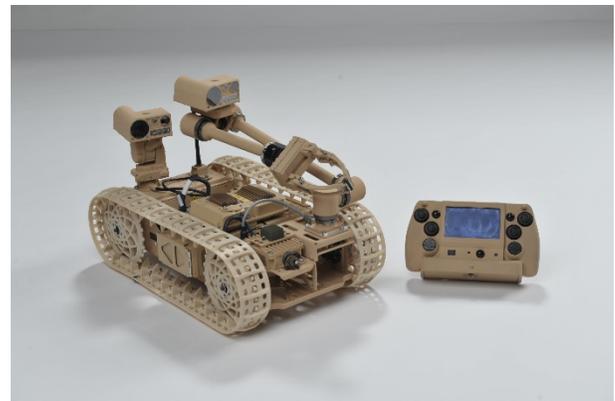
Dallas, TX – May 9, 2017 – VectorNav Technologies, the leading innovator in embedded navigation solutions, announced today that it will supply its surface mount VN-100 IMU/AHRS to Neya Systems for a custom version of its UxAB™ module. Neya Systems LLC, a part of Northrop Grumman's team for the AEODRS Increment 1 Autonomous Behavior Capability Module, will deliver its custom version of the UxAB™ platform to Northrop Grumman for their AEODRS Increment 1 delivery.



VectorNav's VN-100 Surface Mount IMU/AHRS

About the size of a postage stamp, VectorNav's surface mount VN-100 is a temperature calibrated MEMS-based IMU/AHRS that includes 3-axis accelerometers, gyros and magnetometers. The module delivers to users a real-time 3D orientation solution that is continuous over the complete 360 degrees of motion at rates of up to 400 Hz. In addition to calibrated IMU and AHRS functionality, the VN-100 includes VectorNav's Vector Processing Engine (VPE®), a suite of proprietary sensor fusion algorithms running onboard the sensor that deliver real-time magnetic & acceleration disturbance rejection, adaptive signal filtering, dynamic filter tuning, and on-board Hard & Soft Iron compensation.

The VN-100 surface mount module is being integrated directly into the electronics board of Neya Systems' UxAB™ platform, a fully self-contained semi-autonomy and autonomy capability module that includes GPS waypoint navigation, multi-joint manipulator control (with self-collision avoidance), retrotraverse, return-to-comms and optional obstacle avoidance behaviors. Neya is using the calibrated pitch and roll estimates to assist in its controller functionality, for example to provide warning when the robotic module is in danger of tipping. The VN-100 AHRS magnetometer-based heading solution is used for waypoint navigation. VectorNav is providing platform specific hard/soft iron calibration expertise to ensure the magnetometer based heading solution takes into account the magnetic signature of the UxAB module and provides accurate navigation in a variety of environmental conditions.



Advanced Explosive Ordnance Disposal Robotic System (AEODRS) with integrated Neya Systems' UxAB™ module

"We are glad to have VectorNav as a technology partner on this program," said Dr. Parag Batavia, founder of Neya. "The custom UxAB™ being delivered for this program had difficult IMU operational requirements. We needed a high-quality, calibrated, small form-factor solution that delivered accurate heading in challenging environments, and the VN-100 delivered on these requirements. The expertise of their team in navigation and magnetic calibration continues to add value to the platform."



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AEODRS is the next generation of Explosive Ordnance Disposal robotic systems, designed as a follow-on and capability upgrade to existing deployed platforms. AEODRS is based on an open architecture, and Neya's Autonomy Module will conform to the logical, electrical, and physical interfaces that are required by this architecture. Neya will be adapting its commercially available UxAB™ platform to comply with AEODRS Capability Module requirements.

VectorNav Technologies (Booth #1515) will be exhibiting their full product line at AUVSI's XPONENTIAL 2017, May 9-11, in Dallas, TX.

About Neya Systems:

Neya Systems is a leading developer of advanced unmanned systems technologies in the United States. Neya works with defense, homeland security, and commercial customers to deliver novel solutions to some of the hardest problems related to autonomy, computer vision, and general unmanned systems development and deployment. Both government- and commercial-sector engineering managers consistently turn to Neya's team when seeking expertise related to perception in difficult visual conditions.

About VectorNav Technologies:

VectorNav Technologies is the leading innovator and manufacturer of embedded navigation solutions using the latest in MEMS inertial sensor and GPS/GNSS technology. Since its founding in 2008, VectorNav has provided systems integrators in the military, aerospace, marine, and robotics industries around the world with SWaP-C optimized, high-performance navigation systems. VectorNav has unique expertise in applying the digital filtering and sensor calibration techniques that have multiple decades of heritage in aerospace applications to the state-of-the-art in MEMS inertial and GPS/GNSS technology.

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