Raytheon and United Technologies to merge
LISA DAIGLE, ASSISTANT MANAGING EDITOR

Military defense prime contractor Raytheon and United Technologies have entered into an agreement to combine in an all-stock merger of equals; following the completion of the transaction, the company will be known as Raytheon Technologies.

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Development of the next-generation OpenVPX-based embedded system standard ? A tri-service convergence of approaches: Part 3 of 3
MIKE HACKERT, NAVAIR & BEN PEDDICORD, CERDEC & DR. ILYA LIPKIN, AFLCMC

Something exciting is happening in the service representative community. Representatives from three different programs, one from each of the U.S. Department of Defense (DoD) services, have come together with a common objective to solve their respective acquisition problems with an agreed-upon, open architecture standard. Here is the final part of a 3-part article covering the SOSA [Sensor Open System Architecture] Consortium?s efforts. Read Part 1 in the March 2019 issue and Part 2 in the April/May 2019 issue of Military Embedded Systems.

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Radar contract for U.S. Navy won by
Saab

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Saab has received a follow-on order from the U.S. Navy for the Sea Giraffe Multi Mode Radar (MMR) for the Coast Guard’s offshore patrol cutter.

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First 100Gb-Capable COTS FPGA Board, for High-Bandwidth Applications

For the most challenging real-time data digitization, processing, and storage applications, there is a new, higher-performing 6U OpenVPX board – the WILDSTAR 6XB2. RT3 backplane connectors deliver 100Gb per Fat Pipe.

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Understanding the test criteria of optical-fiber transceivers used in space

JOCELYN “JUSTIN” LAUZON, REFLEX PHOTONICS

In electronics used for space and avionics applications, failure is not an option. Components must stand extreme heat, cold, radiation, shock, and vibration, yet deliver reliable performance. To stand up to this kind of harsh use, devices must be tested beyond what is specified to ensure performance in harsh environments to avoid failure. There are a number of essential steps involved in designing a component-test program to ensure reliability and performance.

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Raytheon demos missile-defense capabilities for U.S. Army at LTAMDS sense-off

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Raytheon has completed technical testing during the U.S. Army's Lower Tier Air and Missile Defense Sensor (LTAMDS) sense-off at White Sands Missile Range in New Mexico, during which Raytheon demonstrated its
readiness to deliver mission-critical LTAMDS capability to the U.S. Army.

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**USAF contract to accelerate GaN/SiC parts' readiness won by Integra Technologies**

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Integra Technologies has won a two-year contract with the U.S. Air Force to accelerate technology and manufacturing readiness of its thermally enhanced gallium nitride/silicon carbide (GaN/SiC) technology, which is aimed at use in solid-state RF power applications including high-power military radar systems.

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**USMC to get 30 G/ATOR radar units from Northrop Grumman in $958 million contract**

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Northrop Grumman Systems has signed a $958 million firm-fixed-price contract with the U.S. Marine Corps (USMC) Systems Command the procurement of 30 full-rate production Ground/Air Task Oriented Radar (G/ATOR) units.

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**Missile systems for U.S. Army from Raytheon will be optically tracked, wirelessly guided**

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Raytheon has won a contract from the U.S. Army to
refine and improve on the Army’s Tube-launched, Optically-tracked, Wireless-guided (TOW) weapons system, according to a news release from the U.S. Department of Defense.

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SOSA Consortium voices support for recent tri-service directive on modular open systems

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The Sensor Open Systems Architecture (SOSA) Consortium, which operates under The Open Group, has thrown its support behind the recent tri-service acquisition memorandum signed by the secretaries of the U.S. military, under which the Army, Navy, and Air Force are directed to include Modular Open Systems (MOSA) standards in all requirements, programming, and development activities for future weapon-system modifications and new-start development programs to the furthest extent possible.

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Aircraft sensors market will reach $4.9 billion by 2025, study says

MARIANA IRIARTE, TECHNOLOGY EDITOR

The aircraft sensors market is projected to grow from $3.8 billion in 2019 to $4.9 billion by 2025, at a CAGR of 4.48% during the study period, according to a new study from MarketsandMarkets, "Aircraft Sensors Market by Connectivity, Platform (UAV, Fixed, Rotary), Sensor (Pressure, Temperature, Speed, Proximity, Gyro) Application (Engine, Door, Environmental Control), End Use (OEM, Aftermarket), and Region -- Global Forecast to 2025."

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Navy research vessel upgrades tech to continue legacy of ocean expedition
MARIANA IRIARTE, TECHNOLOGY EDITOR

The oceangoing research vessel (R/V) Roger Revelle is receiving a much-needed technology modernization, including upgrades to its sonar, operating systems, and communication systems. The overhaul will cost project partners the Office of Naval Research (ONR), the Scripps Institution of Oceanography at the University of California San Diego, and the National Science Foundation (NSF) in the neighborhood of $52 million.

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Radar/EW products among those selected for Best in Show awards at IMS 2019
JOHN MCHALE, EDITORIAL DIRECTOR

Military Embedded Systems is excited to announce the winners of our Best in Show Award contest, which we held for our supporters exhibiting at the 2019 International Microwave Symposium (IMS) this month in Boston. Contest winners - drawn from military embedded systems exhibitors at the event - are recognized for the improved performance and innovation they bring to military electronics, RF, microwave, and software systems.

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SkySafe Defeats Drone Threats with Open-Source SDR

SKYSAFE

With the emergence of highly capable, low-cost, wirelessly controlled drones, bad actors can easily execute disruptive operations, such as airport intrusions or surveillance abuse. Read how SkySafe rapidly prototyped and deployed a cutting-edge software defined radio (SDR)-based drone defense system on USRP, delivering industry-leading capability faster and at a much lower cost to the government.

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