



## AUGUST 2019

The Avionics Design monthly E-newsletter from the editorial staff of [mil-embedded.com](http://mil-embedded.com) covers hardware and software avionics designs and certification issues in the commercial and military avionics markets in the U.S. and Europe via the Military Embedded Systems partnership with [Aviation Maintenance magazine](#) and the [Aerospace Tech Week](#) show.

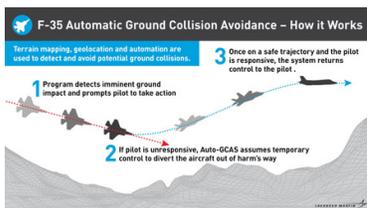


### Space-suit update prototype shows enhanced sensors, electronics, avionics

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Collins Aerospace Systems and materials-engineering firm ILC Dover recently unveiled its Next-Generation Space Suit system prototype designed for future missions to the moon, to orbital stations, and destinations beyond.

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### F-35 anti-collision software to be integrated ahead of schedule

EMMA HELFRICH, ASSOCIATE EDITOR

The F-35 Joint Program Office, U.S. Air Force, and Lockheed Martin have started integrating the Automatic Ground Collision Avoidance System (Auto-GCAS) on to Air Force F-35As in the fleet.

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### ROBOPilot unmanned air platform first flights conducted by AFRL

EMMA HELFRICH, ASSOCIATE EDITOR

The Air Force Research Laboratory and DZYNE Technologies Incorporated completed a two-hour initial



flight of a Robotic Pilot Unmanned Conversion Program called ROBOPilot at Dugway Proving Ground in Utah.

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## Optionally piloted Black Hawk flies with Triumph sensors

EMMA HELFRICH, ASSOCIATE EDITOR

Triumph Group joins Sikorsky, a Lockheed Martin company, in announcing the first flight of the optionally piloted Black Hawk helicopter equipped with a fly-by-wire technology kit.

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Image courtesy Elbit Systems

## Night-vision system for aviators' helmets gets \$22 million nod

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Collins Elbit Vision Systems -- a joint venture between Collins Aerospace Systems and Elbit Systems of America -- has obtained a \$22 million firm-fixed price contract for the production and delivery of Night Vision Cueing and Display (NVCD) systems for the U.S. Navy and for the governments of Australia and Switzerland.

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## There We Grow Again

AVIATION MAINTENANCE MAGAZINE



Aviation Maintenance's parent company, Aerospace & Security Media holds an annual conference and exhibition and it is growing. This event started out as The Avionics Show covering all the latest avionics developments in the industry.

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## King Stallion helicopters production contract won by Sikorsky

EMMA HELFRICH, ASSOCIATE EDITOR

Sikorsky has been awarded a \$107 million contract for early work on the next six CH-53K King Stallion helicopters for the U.S. Marine Corps. The contract covers long lead items for six low-rate initial production lot 4 helicopters.

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## Jet drone systems awards totaling \$4.8 million won by Kratos

EMMA HELFRICH, ASSOCIATE EDITOR

Kratos Defense & Security Solutions, National Security Solutions provider, announced that its Unmanned Systems Division has received approximately \$4.8 million of awards for high-performance jet drones, spares for Kratos jet drones, support equipment for Kratos jet drones, and specialty composite components.

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### SPONSORED CONTENT

## COTS, SOSA, and Open Architectures - The New Space Race Podcast

WIND RIVER

Today, multi-national corporations and startups alike are addressing the emerging sector of commercial spacecraft. Known as "new space," it is where companies are introducing new designs that propel them at the forefront of technological advancement in areas such as 5G networking and big data imaging. As the new space race heats up, Wind River brings you a podcast series that recounts some of the disruptive changes that are transforming the industry. Tune in to the next episodes: Enabling COTS in Space, and Open Architectures and Reuse Initiatives in Space Systems.

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## E-8 simulator support contract awarded to Rockwell Collins

EMMA HELFRICH, ASSOCIATE EDITOR

The Defense Department announced Rockwell Collins Simulation & Training Solutions won a \$40.2 million contract for E-8 Aircrew Training Device sustainment.

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## Counter-UAV market to boom in next 10 years, study says

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The \$1.3 billion counter-unmanned aerial vehicle (C-UAV) market is expected to see large increases over the next 10 years around the world due to increasing security concerns and the need for advanced defense systems to tackle terrorism, according to a new study from Visiongain, "Counter-UAV (C-UAV) Market Report 2019-2029."

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## Raytheon's Enterprise Air Surveillance Radar tracks first targets

EMMA HELFRICH, ASSOCIATE EDITOR

Raytheon and the U.S. Navy completed the first system-level tests of SPY-6(V)2, the Enterprise Air Surveillance Radar (EASR), at the Surface Combat System Center at Wallops Island, Va.

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## Fabricating Parts to Facilitate Maintenance, What Does 21.9 Really Mean?



## Thailand Fixes Focus on Aviation MRO as Key Part of Future

AVIATION MAINTENANCE MAGAZINE

Thailand's government is offering enticing tax and visa incentives for companies to bring aerospace and MRO businesses to their country. They believe their location, labor costs, technical base and work ethics make it the ideal location for those looking to benefit from the coming Asian aviation boom.

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## F-16 production contract for allied nations awarded to Lockheed

EMMA HELFRICH, ASSOCIATE EDITOR

Lockheed Martin was awarded two contracts worth more than \$1.1 billion by the U.S. Air Force for production, support, and training on the F-16 for two allied nations.

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## Fabricating Parts to Facilitate Maintenance, What Does 21.9 Really Mean?

AVIATION MAINTENANCE MAGAZINE

A recent post I made on the Facebook "FAA Inspection Authorization and Inspectors" page stirred up a lot of unexpected controversy. The original post referred to a component fabricated in the course of maintenance, and how an FAA Aircraft Certification Office inspector threatened the person performing the maintenance with a violation unless he got a Field Approval for that maintenance task.

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## Digital hangar to be developed by AFRL

EMMA HELFRICH, ASSOCIATE EDITOR

The Air Force Research Laboratory (AFRL) will be developing a digital hangar at Wright-Patterson Air Force Base. The concept, created by aerospace research engineer Dr. Rick Graves, will act as a virtual repository containing digital surrogates of aerospace systems that have been gated through rigorous validation and verification processes.

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WHITE PAPER

## Intel Processor-Based Embedded Systems Cybersecurity

AITECH

In the emerging world of embedded systems, as autonomous platforms (UAVs, SUAVs, etc.) are being used for defense and aerospace, there is a growing interest in advanced means to secure these systems and related information from menacing intruders. This article provides an overview of possible security threats for embedded systems utilized in defense/aerospace and also covers available techniques for securing these systems, and the information that they contain.

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## Making it Cool: Solving Thermal Management Challenges

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