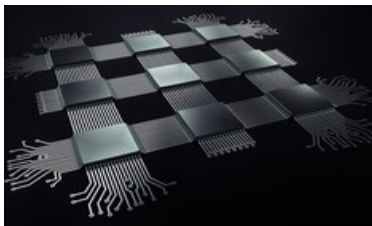




## FEBRUARY 2021

The Avionics Design monthly E-newsletter from the editorial staff of [militaryembedded.com](http://militaryembedded.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.



### Embedded avionics computer released by Abaco Systems

EMMA HELFRICH, TECHNOLOGY EDITOR

Abaco Systems, Inc. announced the MAGIC1A, a high-performance embedded computer (HPEC) with a modular, scalable approach to system design and architecture; based on 3U-VPX technology.

[Read More +](#)



### Berry Aviation Granted \$179M USTRANSCOM Contract Option

AVIATION MAINTENANCE MAGAZINE

Berry Aviation, Inc. recently announced it has been granted a one-year contract option period from U.S. Transportation Command for rotary and fixed-wing airlift support to U.S. Africa Command (AFRICOM) under the Trans-Africa Airlift Support Indefinite Delivery, Indefinite Quantity contract.

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### Avionics suite designed by NGC to bolster F-35 warfighting capability

EMMA HELFRICH, TECHNOLOGY EDITOR

Northrop Grumman Corporation has received a contract award from Lockheed Martin Corporation to enable new functionality to protect the 5th Generation F-35 Lightning II multi-role fighter.

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## **GUEST BLOG: What's the difference between IFF and Micro IFF?**

DR. JIM DAVIS, uAVIONIX

The Fog of War: When opposing forces battle for domination, battlefield loss is always a concern. Sometimes it arises as intended from enemy action. Another kind of attrition, though, might be described as “collateral damage” or “fratricide,” when one side mistakenly kills or destroys one of its own. Fratricide arises from a variety of causes, among them loss of situational awareness, an unexpected encounter where rapid identification is not possible, or simply being in the wrong place at the wrong time.

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## **Sensor-enabled digital debris tracking tech wins research contract with Rolls-Royce**

EMMA HELFRICH, TECHNOLOGY EDITOR

Rolls-Royce has won \$1 million of research funding from the U.S. Government for digital foreign object debris (FOD) detection technology. The year-long research contract from the U.S. Navy will help to further develop and validate Rolls-Royce's FanSense debris monitoring system, which is currently supporting the Pegasus engine.

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## **The Loar Group Acquires Safe Flight Instrument Corp.**

AVIATION MAINTENANCE MAGAZINE

Loar Group, Inc. (Loar) has recently added Safe Flight Instrument Corporation (Safe Flight) to its family of companies.

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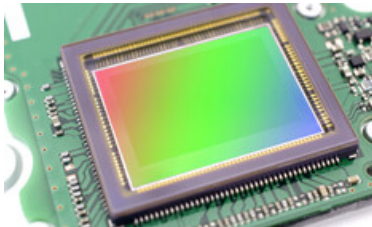
## **Solving cybersecurity, AI, and open architecture challenges in defense electronics**



JOHN MCHALE, EDITORIAL DIRECTOR

In this episode of the Mil Tech Virtual Toolbox, we spoke with Duc Huy Tran, VP of Global Marketing with Aitech Systems about tools for enabling cybersecurity in military embedded systems and how artificial intelligence (AI) and open architecture initiatives such as the Sensor Open Systems Architecture (SOSA) are changing the defense electronics landscape.

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## Inertial sensors for unmanned vehicles in development with Honeywell

EMMA HELFRICH, TECHNOLOGY EDITOR

Honeywell, with funding from the U.S. Defense Advanced Research Projects Agency (DARPA), is creating the next generation of inertial sensor technology that will one day be used in both commercial and defense navigation applications.

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## DEFiant X advanced assault helicopter in development for U.S. Army

EMMA HELFRICH, TECHNOLOGY EDITOR

Sikorsky, a Lockheed Martin Company, and Boeing released details of its advanced helicopter for the U.S. Army's Future Long-Range Assault Aircraft competition, known as FLRAA. The aircraft, named DEFiant X, will aim to revolutionize the way the Army meets threats in 2035 and beyond.

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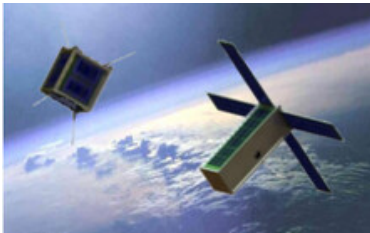


## Open-architecture air-combat training system for U.S. military passes crucial milestone

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Collins Aerospace and project teammate Leonardo DRS announce the successful initial flight of the TCTS Inc. II Air Combat Training program on an operational F/A-18E/F Hornet by pilots in the U.S. Navy. The initial flight took place out of Naval Air Station Patuxent River (Maryland).

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## General Atomics bolsters space, avionics, CubeSat business with Tiger Innovations acquisition

LISA DAIGLE, ASSISTANT MANAGING EDITOR

General Atomics announced the acquisition of Tiger Innovations (Herndon, Virginia), a company focused mainly on satellite systems plus related hardware and software.

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## Unmanned platform company UAV Factory acquired by AE Industrial Partners

EMMA HELFRICH, TECHNOLOGY EDITOR

AE Industrial Partners, LP (AEI), a private equity firm specializing in Aerospace, Defense, Government Services, Power Generation, and Specialty Industrial markets, announced that it has acquired UAV Factory, company specializing in the tactical Unmanned Aerial Vehicle (UAV) and Intelligence, Surveillance, Reconnaissance (ISR) technology markets.

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## Detect-and-avoid system in development for UASs under AFWERX contract

EMMA HELFRICH, TECHNOLOGY EDITOR



Sagetech Avionics, technology company providing situational awareness solutions for Unmanned Aerial Systems (UAS), announced it has received a U.S. Air Force Small Business Technology Transfer (STTR) contract for the initial development phase of components for a type-certifiable detect-and-avoid (DAA) system. The resulting system will aim to enable UAS to safely operate beyond visual line-of-sight (BVLOS) in the National Airspace System (NAS).

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## AAR Paves the Way to Improve MRO Safety with SMS

AVIATION MAINTENANCE MAGAZINE

You may have seen the news clip last month in Aviation Maintenance announcing that the FAA now recognizes AAR's Aviation Services as the first independent MRO to have a fully functional Safety Management System (SMS). "AAR's SMS implementation meets the expectations of the Flight Standards Service SMS Voluntary Program guidance," the FAA stated. "Thank you for your continued commitment to improve aviation safety ... and congratulations on your momentous achievement."

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## Cybersecurity for the Intelligent Edge: A Microweb Tech Series

WIND RIVER

According to IDC, there will be an estimated 42 billion connected devices by 2025. Each of these devices represents a point of entry that can be exploited by a cyberattack. For devices and systems with safety-critical functionality, a security breach can have catastrophic consequences. Security becomes even more paramount than safety.

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## Consider Embedded Electronics When Planning Next Aircraft Design

ABACO SYSTEMS

General computer platform vendors can save aircraft design companies and system integrators millions in costs and reduce developmental time. These open architecture computing and electronic system suppliers provide blank computer platforms, but perform all the upfront design and processes required to generate all the safety artifacts.

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