



NOVEMBER 2020

The Avionics Design monthly E-newsletter from the editorial staff of 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.

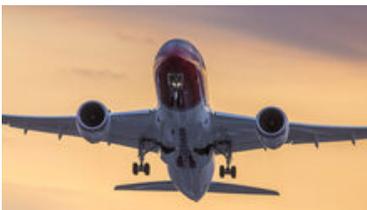


High-endurance electronic warfare jet in development for Navy

EMMA HELFRICH, ASSOCIATE EDITOR

Aery Aviation, LLC is the Managing Member of a Joint Venture (JV) that has won the five-year U.S. Navy high-endurance electronic warfare jet (HEEWJ) contract by Naval Air Systems Command (NAVAIRSYSCOM) for a Firm Fixed Price of \$146 million. The contract was awarded to Strategic Airborne Operations JV, LLC, which is a JV between Aery and Mountain Aviation LLC.

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New Swedish Technology to Support a Greener Aviation Recovery

AVIATION MAINTENANCE MAGAZINE

Flying is like competition sailing: it is all about using good winds and avoiding unfavorable air currents. To allow airlines to fully use the favorable winds there is a new weather optimization service available that shows exactly how the wind blows and where there is bad weather in the atmosphere. With this knowledge airlines can save hundreds of tons of fuel per month which also means less emissions, insists AVTECH, a company dedicated to optimizing operational efficiency and capacity.

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King Air 350ER aircraft to undergo modernization under Canadian ISR project

EMMA HELFRICH, ASSOCIATE EDITOR

L3Harris Technologies announced it has won a firm-fixed price contract to missionize three new King Air 350ER aircraft for the Canadian manned airborne intelligence, surveillance, and reconnaissance (CMAISR) project.

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Manned-unmanned teaming capabilities in development with BAE Systems

EMMA HELFRICH, ASSOCIATE EDITOR

BAE Systems announced it has won multiple contracts from the U.S. Army to develop technologies for the Advanced Teaming Demonstration Program (A-Team). BAE Systems won contracts for three of the program's four focus areas, designed to advance manned-unmanned teaming (MUM-T) capabilities for the U.S. Army's Future Vertical Lift (FVL) program.

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Open-source autopilot to be integrated with Sagetech Avionics' UAV transponders

EMMA HELFRICH, ASSOCIATE EDITOR

Sagetech Avionics, company providing safety solutions for unmanned aerial systems (UAS), and Kraus Hamdani Aerospace, a UAS technology company, announced that

they have completed the integration of Sagetech's UAV transponders with the open source autopilot, ArduPilot.

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Getac Brings Integrated LiFi Technology to Rugged Mobile Computing Market

AVIATION MAINTENANCE MAGAZINE

Getac has announced that it is bringing integrated LiFi technology powered by pureLiFi to the rugged market for the first time. The company says this means customers across a wide range of professional sectors will soon be able to enjoy the benefits of fully rugged reliability and innovative LiFi connectivity in a single device, unlocking a host of powerful new applications and use cases.

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Military avionics WEBCAST: "An Introduction to FACE" Nov 18 at 2 pm est

JOHN MCHALE, EDITORIAL DIRECTOR

This webcast on Wednesday, November 18 at 2 pm Est is led by Chris Crook, Senior Software Analyst supporting Program Executive Office (PEO) Aviation (AVN) for the U.S. Army, and elected Chair of the FACE Technical Group (TWG). He will provide a detailed description of: the FACE organization; architecture; architectural segments and interfaces; and the FACE data architecture. Attendees of the webcast include avionics program managers, airborne systems designers, avionics applications software developers, engineering managers, FACE software suppliers, and military avionics architects.

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B-1B Lancer system to undergo redesign including radiation hardening

EMMA HELFRICH, ASSOCIATE EDITOR

The U.S. Air Force awarded Southwest Research Institute (SwRI) a \$12 million contract to redesign a B-1B Lancer system with the intent to extend the aircraft's service life.

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Maritime patrol and reconnaissance aircraft to see upgrades under ManTech contract

EMMA HELFRICH, ASSOCIATE EDITOR

ManTech announced a four-year \$260 million task order awarded under the Department of Defense Information Analysis Center's (DoD IAC) multiple-award contract (MAC) vehicle.

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Flying vehicles: Are we there yet?

WILL KEEGAN, LYNX SOFTWARE TECHNOLOGIES

Flying cars are being demonstrated and are close to becoming a reality as the urban mobility segment experiences significant investment. We've also had discussions with an automotive manufacturer who is looking to build avionics platforms. So that got me thinking about the way in which the avionics and automotive industries will come together. It's already happening.

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Unmanned air platform deemed ROBOpilot undergoes more flight tests

EMMA HELFRICH, ASSOCIATE EDITOR

Flight testing of the ROBOpilot unmanned air platform

has been resumed by the Air Force Research Laboratory (AFRL) Center for Rapid Innovation (CRI) and DZYNE Technologies Incorporated. The platform completed a fourth flight test at Dugway Proving Ground, Utah, during which ROBOpilot flew for approximately 2.2 hours, completing all test objectives.

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Helicopter-UAV teaming demoed with Leonardo's AW159 Wildcat

EMMA HELFRICH, ASSOCIATE EDITOR

Leonardo demonstrated integrated capabilities between a manned aircraft and an unmanned aerial vehicle (UAV). This took place in the U.K. during Manned-Unmanned Teaming (MUMT) trials between a Leonardo AW159 Wildcat helicopter and a semi-autonomous UAV from Callen-Lenz Associates.

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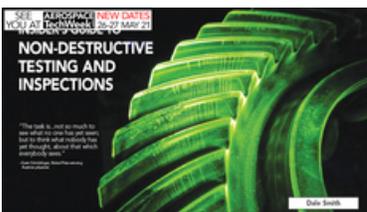


Flight-deck system for helicopters from Abaco wins major contract with European tech company

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Abaco Systems has won orders from a major European technology company that will insert some of Abaco's hardware platforms deployed at the center of a new helicopter cabin computer.

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INSIDER'S GUIDE TO NON-DESTRUCTIVE TESTING AND INSPECTIONS

AVIATION MAINTENANCE MAGAZINE

With global passenger traffic still reeling from the COVID-19 pandemic, it's painfully obvious that airlines are going to be postponing aircraft replacements well into 2021 and beyond. That means that the current fleet is going to be extended beyond their operator's original plans.

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Optimizing Cybersecurity on Today's Connected Military and Commercial Aircraft

CURTISS-WRIGHT

The number of data communication links and interactions between an aircraft and the ground systems supporting it are ever increasing. If not properly protected, every system, sensor, and module on the aircraft can create a potential vulnerability that can be exploited by unauthorized users to obtain confidential, sensitive data or – worse – disrupt the safe operation of an aircraft.

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Webcast: Making the Grade with Linux and Cybersecurity at the Intelligent Edge

WIND RIVER

As intelligent edge deployments accelerate, we have reached a crossroads where many are being forced to choose between the accessibility, ease of use, flexibility, and leading-edge capabilities of open source software and the safety and security of systems in the field. How we proceed has the potential to lead massive transformation in the embedded industry.

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