AVIONICS > DESIGN

MARCH 2020

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

POSTPONED dates announced for AEROSPACE TECH WEEK

ADRIAN BROADBENT, CEO AEROSPACE & SECURITY MEDIA

Despite not being able to proceed with Aerospace Tech Week next week in France we do at least now at last have some positive news. The event is now officially confirmed as being postponed to 24-26th March 2021 in Toulouse again at the same venue. We are therefore delaying the return to Munich until 2022.

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DOT OIG Report on FAA Oversight of Southwest Airlines

AVIATION MAINTENANCE MAGAZINE

In this episode of The Maintenance Control podcast, Joy Finnegan, editor-in-chief of Aviation Maintenance Magazine, and safety expert Jeff Guzzetti discuss the latest DOT Office of the Inspector General report released on February 11, 2020.

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AESA radar systems on F-16s to see modifications

EMMA HELFRICH, ASSOCIATE EDITOR

Northrop Grumman won a $262.3 million deal for Active Electronically Scanned Array (AESA) radars on F-16

aircraft for the U.S. Air Force, the Department of Defense announced.

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Reconnaissance and patrol aircraft to undergo modernization

EMMA HELFRICH, ASSOCIATE EDITOR

ManTech announced that it was awarded a five-year $920 million prime task order by the General Services Administration (GSA), Federal Systems Integration and Management Center (FEDSIM), on behalf of the Naval Surface Warfare Center (NSWC) Crane.

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FMVDL power amplifiers to equip F-35 Lightning II

EMMA HELFRICH, ASSOCIATE EDITOR

Elbit Systems of America was selected by Cubic Mission Solutions to design and develop the Full Motion Video Data Link (FMVDL) amplifier module for the communications suite of the F-35 Lightning II aircraft.

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AireXpert Reports Rapid Acceleration of Global Network & Finds Secret to Dramatic Decrease in Costly Flight Delays In Midst of Economic Uncertainty and Severe Spending Cuts

AVIATION MAINTENANCE MAGAZINE

AireXpert announced several key integrations and software enhancements that increase the performance of air carriers across their route networks and improve the passenger experience. The company says their latest release offers new ways to immediately capture the cost savings benefits of real-time operations collaboration without the necessity of upfront labor or resource commitments.

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INTEGRITY-178 software selected for GPS modernization

EMMA HELFRICH, ASSOCIATE EDITOR

Green Hills Software, embedded safety and security company, announced that its INTEGRITY-178 Time-Variant Unified Multi-Processing (tuMP) RTOS running on a quad-core ARM Cortex-A53 CPU has been selected by Northrop Grumman Corporation for the Embedded Global Positioning System (GPS)/Inertial Navigation System (INS)-Modernization (EGI-M) program.

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Air-to-space laser comms system tested by GA-ASI

EMMA HELFRICH, ASSOCIATE EDITOR

General Atomics Aeronautical Systems, Inc. (GA-ASI) has ground tested its Airborne Laser Communication System (ALCoS) by establishing a link with a satellite in Geo-synchronous Earth Orbit (GEO). GA-ASI conducted the test with Tesat-Spacecom (TESAT), space-based laser communication (lasercom) company, using their GEO Laser Communication Terminal (LCT), the LCT 135.

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C2 software platform to be sustained for Air Mobility Command

EMMA HELFRICH, ASSOCIATE EDITOR

Boeing, through its subsidiary Tapestry Solutions, announced it has secured a five-year U.S. Air Force recompete contract to sustain and modernize the Global Decision Support System (GDSS) ? the principal

command and control (C2) software platform that supports global Air Mobility Command (AMC) missions.

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Fire control radar to be sustained by LONGBOW and NGC

EMMA HELFRICH, ASSOCIATE EDITOR

The U.S. Army awarded LONGBOW Limited Liability Company (LBL), a joint venture of Lockheed Martin, and Northrop Grumman Corporation (NGC) a five-year sustainment indefinite delivery/indefinite quantity contract for up to $235.8 million to provide post-production support services for the AH-64 Apache helicopter AN/APG-78 LONGBOW Fire Control Radar (FCR) to international customers.
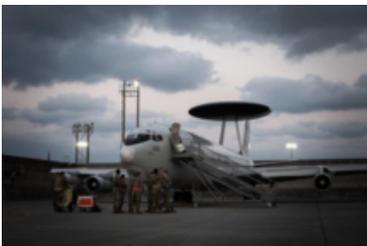
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Sensor upgrades on U-2 reconnaissance planes complete

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Collins Aerospace Systems, Lockheed Martin Skunk Works, and the U.S. Air Force report completion of flight testing and deployment of the latest variant of the Collins Aerospace Senior Year Electro-Optical Reconnaissance System (SYERS) sensor, SYERS-2C, on the U-2 reconnaissance aircraft.

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E-3 Sentry airborne warning system to be upgraded

EMMA HELFRICH, ASSOCIATE EDITOR

Boeing won a $99.9 million contract for Block 40/45 production of the E-3 Sentry Airborne Warning and Control System (AWACS), the Pentagon announced. The contract funds the acquisition of supplies and services for the E-3 AWACS Block 40/45 upgrade.

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Airborne EW systems to be supplied to German AF

EMMA HELFRICH, ASSOCIATE EDITOR

Elbit Systems announced that it was selected by the Federal Office for Bundeswehr Equipment, Information Technology, and In-Service Support to support the preliminary design of Airborne Electronic Warfare (EW) self-protection systems for the CH-53 GS/GE transport helicopters, as part of the platform upgrade program led by Airbus Helicopters.

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Traceability, Evidence, and Trust in the Aircraft Parts Industry

AVIATION MAINTENANCE MAGAZINE

This is an article about complying with maintenance regulations. We rely much more on traceability and documentation, today, than we did twenty years ago. But as we rely more on traceability, it is important to reflect on why we rely on traceability, what is the purpose of the traceability, and based on these first two factors, what traceability should be acceptable.

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The Impact of Unmanned Systems: From the Battlefield to the Consumer World

WIND RIVER

It all began with a good idea. Decades ago, unmanned systems first became force multipliers on the battlefield, increasing situational awareness and keeping fighters out of harm's way. Today they help realize the vision a multi-domain battlefield, but their benefits have reached across industries.

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