



JUNE 2019

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](#).



Aerospace and military market forecasted at \$8.7 trillion through 2028 by Boeing

JOHN MCHALE, EDITORIAL DIRECTOR

Strong commercial aviation industry, Steady military spending combined with a growing commercial aviation sector promises growing aerospace and defense market, according to the Boeing Market Outlook (BMO), released this week at the Paris Air Show. Boeing experts forecast the market values at \$8.7 trillion over the next ten years, up from \$8.1 trillion a year ago.

[Read More +](#)



Autonomous flight technology demonstrated by Collins Aerospace and Sikorsky at Paris Air Show

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Collins Aerospace Systems (a unit of United Technologies) and Sikorsky (a Lockheed Martin company) demonstrated fly-by-wire technology that enables autonomous flight for rotary- and fixed-wing aircraft.

[Read More +](#)

MQ-9A fleet program for U.K. awards \$90.9 million contract to GA-ASI



General Atomics Aeronautical Systems Inc. (GA-ASI) has been awarded a \$90.9 million cost-plus-fixed-fee contract for the United Kingdom's MQ-9A Contractor Logistics Support Phase IV Program.

[Read More +](#)

High-performance solutions for safety-critical applications

TI's enhanced product microcontrollers integrate safety features and provide multiple peripherals for avionics applications.



Autopilot system approaches DO-178-C certification, thereby closing regulatory gap

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Autopilot maker MicroPilot is nearly done with its five-year effort to achieve DO-178C Design Assurance Level B certification for its upcoming MP2128 HELI3 autopilot, a level of certification that will enable operators of remotely piloted aircraft (RPA) and unmanned aerial vehicles (UAVs) to obtain authorization from regulators to conduct missions in higher-risk areas where RPA/UAV operations are prohibited, such as over population centers.

[Read More +](#)



Ansys and Airbus to collaborate on autonomous flight to support Europe's Future Combat Air System

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Engineering-simulation company Ansys and aviation giant Airbus Defense and Space have announced that the pair will use an Ansys embedded-software solution to develop an advanced unmanned aerial vehicle (UAV) in support of Europe's Future Combat Air System (FCAS).

[Read More +](#)



If it ain't Boeing

AVIATION MAINTENANCE MAGAZINE

The Boeing 737 MAX issue continues to play out in the aviation world. Airlines have extended flight cancellations involving the MAX well into the summer. Upwards into the thousands of flights will ultimately be cancelled. Inconvenience. Lost revenue. But nothing compared to the lives already lost.

[Read More +](#)

**RUGGED & FLEXIBLE
AVIONICS HARDWARE &
I/O SOLUTIONS**

DAQ, CONTROL, TEST
MONITORING, HIL/SIL
SYSTEMS & MORE!
FULL AVIONICS I/O SUPPORT!

10-YR AVAILABILITY GUARANTEE

 1553 | 664 | 429 | 825 | 708/453
www.ueidaq.com

Boeing invests in UAS services provider Robotic Skies

LISA DAIGLE, ASSISTANT MANAGING EDITOR



Boeing has announced its investment in Robotic Skies (Albuquerque, New Mexico), a services provider that connects manufacturers and operators of commercial unmanned aircraft systems (UAS) with a global network of more than 170 civil aviation authority-certified repair stations.

[Read More +](#)

Military fixed-wing aircraft market to grow to approximately \$100 billion by 2027, study says

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The market for military fixed-wing aircraft is expected to grow at a CAGR of around 2%, to reach approximately \$100 billion in 2027, according to a new report from Market Forecast, "Global Military Fixed-Wing Aircraft -- Market and Technology Forecast to 2027."

Global Military Fixed-Wing Aircraft

Market and Technology Forecast to 2027



MARKET
FORECAST

[Read More +](#)



FACE approach improves affordability, time-to-field of avionics systems and software platforms

RICARDO CAMACHO, LDRA

Maintaining U.S. supremacy in all aspects of warfare can be challenging for Department of Defense (DoD) leaders, partly due to being locked into proprietary platforms or vendor-specific open architectures. These issues limit the government's ability to bring in third parties to compete or add new capabilities, which has resulted in sole-source or single-bidder contract awards. An open systems architecture strategy has shown to curb the high-cost, long program schedules and lack of integration options of warfighting capabilities.

[Read More +](#)

mercury
systems™

**Secure processing
blade for on-platform
AI and sensor fusion
processing.**

BuiltSECURE™

[Download the data sheet](#)

**CURTISS -
WRIGHT**

Your flying taxi is here

RICK HEARN, CURTISS-WRIGHT DEFENSE SOLUTIONS

The flying car: From The Jetsons to Blade Runner to Star

Wars, the idea of escaping the traffic jam down on the ground and cruising through the sky has always seemed a promise too far out of reach to be real. Now, thanks to parallel advancements in battery technology and autonomous vehicles resulting from Tesla and other pioneering electric automobile manufacturers, we are rapidly approaching the era of the unmanned flying taxi.

[Read More +](#)



Next-gen Special Ops MH-47G Chinooks to be built by Boeing

JOHN MCHALE, EDITORIAL DIRECTOR

The next-generation MH-47G Chinooks to be operated by the U.S. Army Special Operations Aviation Command will be built by Boeing. The next-gen aircraft will have the Block II configuration, which have technological advancements to extend the fleet's service life and enhance performance.

[Read More +](#)



Optionally piloted technology tested on Black Hawk; Sikorsky says will lead to fully autonomous flights

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Sikorsky Aircraft Corp. -- a Lockheed Martin company -- reports that it has tested a technology kit for the first time to operate a Black Hawk helicopter with full-authority, fly-by-wire flight controls. The recent flight, said company officials, was the initial foray of the flight test program for the soon-to-be optionally piloted aircraft.

[Read More +](#)



Honeywell launches advanced software platform to help airlines be efficient

AVIATION MAINTENANCE MAGAZINE

Honeywell has launched Honeywell Forge for Airlines, an analytics-based platform for airlines that the company says helps increase profit while improving efficiency and passenger experience.

[Read More +](#)



Saab selects power and controls systems from Collins Aerospace for Boeing T-X trainer

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Saab has chosen Collins Aerospace Systems (a unit of United Technologies) to supply mission-critical power and controls systems for the Boeing T-X trainer, including the aircraft's Power Take Off (PTO) shaft, Auxiliary Power Engine Control Unit (APECU), engine start system, and Main Electric Power Generation System (MEPGS).

[Read More +](#)

**AEROSPACE
TechWeek.com**
18/19 Mar 2020 | Toulouse, France

Avionics Connected AIRCRAFT MRO IT AEROSPACE testing Flight Ops IT FACE

6 EVENTS UNDER 1 ROOF

CALL FOR PAPERS NOW OPEN
Abstract submittal deadline - 21st June 2019
Submit online at
www.aerospacetechweek.com/cfp



Spirit AeroSystems acquisition ASCO endures cyber attack

AVIATION MAINTENANCE MAGAZINE

Belgian aerospace manufacturer ASCO Industries has closed several factories due to a ransomware attack on June 7. ASCO, a maker of aircraft parts and equipment, is in the process of being acquired by Wichita, Kan.-based Spirit AeroSystems. The company had a ransomware attack and says it has outside help to deal with the situation. It is also reported ASCO has shut down some of its Belgian factories, which left more than 1,000 people without work. Reports indicate the attack came through Spirit AeroSystems network.

[Read More +](#)



Space Coast to host Boeing Space and Launch HQ

EMMA HELFRICH, ASSOCIATE EDITOR

To strengthen collaboration and integration across its portfolio, Boeing is relocating the headquarters of its Space and Launch division to Titusville, on Florida's revitalized Space Coast.

[Read More +](#)



WHITE PAPER

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.

[Read More +](#)

Making it Cool: Solving Thermal Management Challenges in Military Electronics

Sponsored by: Atrenne Computing Solutions, Kontron, nVent Schroff

Date: July 18, 11:00 a.m. ET

[REGISTER NOW](#)

