

# MRO

## BUSINESS TODAY

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June 1<sup>st</sup>, 2020



## GKN Aerospace to contribute in making of empennage, wing and EWIS of ALICE

**G**KN Aerospace and Eviation have signed a partnership to work on Alice, the world's first all-electric, ground-breaking commuter aircraft launched by Eviation. As a part of the agreement GKN will design and manufacture advanced lightweight wing, empennage and wiring systems with a focus on environmental sustainability. The manufacturing process is already underway at Eviation (Israel) and in several GKN Aerospace engineering centers across Europe.

Describing this collaboration as ground breaking John Pritchard, President, Civil Airframes GKN Aerospace said, "We are excited to collaborate with Eviation and to support the development of this all-new electric aircraft. It's a step change in

aviation and we are delighted to contribute by bringing unrivalled knowledge and expertise to the project."

GKN has already proven their world-leading capability in the design and manufacture of advanced lightweight aerostructures and EWIS on Airbus A220, A320, A330, A400M, A350 XWB, Boeing 767 and 787, Dassault F6X, F7X, F8X Gulfstream G550, G650, G700 and the Lockheed Martin F-35.

This capability will be used to mature the design of the empennage, wing and EWIS of Alice. It will change the way people travel by making journeys up to 650 miles more sustainable.

Matteo Borghini Lilli, Director, Wing Product Group at GKN Aerospace said, "In the quest for more sustainable and

environmentally friendly aviation, we are excited to be part of the Eviation programme, which is at the forefront in taking electric flight from a future aspiration into today's reality. GKN Aerospace is proud to bring its wealth of experience in design and certification, in conjunction with key technological innovations, to achieve this aspiration."

"GKN Aerospace brings tremendous expertise to the program, allowing us to think again about what could be achieved with advanced aerostructures," said Omer Bar Yohay, Eviation's CEO and Co-Founder. "I trust that we'll see GKN Aerospace takes on a growing part of our development and manufacturing effort as the program matures and the Alice nears production."

# Heathrow prepares for post-COVID-19 passenger traffic



In an attempt to push the common International standards and set an example to other airports, Heathrow airport has installed thermal screening technology at Terminal 2.

This technology makes use of camera detection systems capable of monitoring the temperatures of multiple people moving through the airport. Passengers will be alerted to this through the signage placed at immigration hall and the

leanings from these trials will be shared with the UK government. Passengers can be rest assured that no personal data will be stored or shared through these trials.

Currently this technology is placed only at Terminal 2, if successful it can be expanded across the airport into departures, connections and colleague search areas to further stress test its capabilities.

Heathrow CEO John Holland-Kaye said, "We welcome the Secretary of

State for Transport's 'air bridge' proposals to allow trade to continue between destinations with low COVID-19 risks. To unlock the full benefits of aviation for the economy, a Common International Standard for health screening must be agreed by the global authorities - and the technology we are trialling now could be a part of this solution."

Apart from these, not just the employees, but everyone at the airport is supposed to wear a face mask on arrival. Also the airport has made provision of over 600 hand sanitiser stations, enhanced cleaning regimes, prominent signage featuring government health advice, perspex barriers for frontline contact points and social distancing reminders.

"As one of the world's great trading nations, the UK should take a lead in setting a global plan to reopen borders, when it is safe to do so. This will help protect millions of British jobs that rely on aviation, but are currently at risk," he further added.

Going ahead, Heathrow airport might also consider the use of UV technology to efficiently sanitise security trays and contact-free security screening equipment to reduce person-to-person contact.

## If your temperature is above 100.4 Fahrenheit, you can't board Frontier flight

As a part of safe travel restrictions post COVID-19, various airlines and airports are preparing to resume operations. On the same note Frontier Airlines will screen all boarding passengers with a touch less thermometer. Any passenger with a temperature of 100.4 degrees Fahrenheit or higher will be denied boarding. Besides this, all passengers and crew members are to wear face masks at all times on board the flight.

Frontier Airlines CEO Barry Biffle explained the new norms for everyone flying Frontier. He said, "The temperature screenings will add an additional layer of protection. This new step coupled with face coverings and elevated disin-

fection procedures, will serve to provide Frontier customers an assurance that their well-being is our foremost priority and we are taking every measure to help them travel comfortably and safely."

If a passenger's temperature is found to be above 100.4 degree, they will be asked to rest till the flight departs. However, prior to boarding there will be a second temperature screening. If during the second screening the temperature remains above 100.4 degree then the passenger will be denied entry into the flight. He can then rebook the travel on a later date.

Also, all the passengers have to provide a health acknowledgement prior to

check in confirming that they or their family members have not exhibited any COVID-19 symptoms in the last 14 days.

Besides passenger and crew safety, Frontier Airlines have already put in place extremely stringent cleaning and sanitation protocols. Every surface of the aircraft is regularly fogged with a disinfectant proven to be effective against bacteria and viruses, in addition to fogging all the surfaces are wiped with a disinfectant for additional safety.

Also, all aircraft are fitted with HEPA filters which are proven to recycle cabin air and capture virus and bacteria with an efficiency of 99.7 per cent.

## Vyair Medical and Spirit AeroSystems team up for speedier ventilator supply



In an attempt to meet the unprecedented demand of ventilators in the face of COVID-19 pandemic, Vyair Medical and Spirit AeroSystems have come together in a temporary partnership to increase ventilator production.

Spirit AeroSystems expertise in industrializing, production, well-trained and experienced workforce of assembly mechanics, machinists, factory managers and supply chain professionals along with Vyair's largest healthcare facility will help to quickly cover-up the ventilator demand and supply. It is anticipated that about 700 employees from Vyair and 300 from Spirit will work in collaboration in Kansas and California as a part of this deal.

Looking at this situation as an opportunity to help people Vyair CEO Gaurav Agarwal said, "The COVID-19 pandemic has upended our way of life, but this is our opportunity to meet the needs of the American people. Spirit's breadth of technical capability, manufacturing prowess and skilled workforce make them ideally suited to support us in scaling our operations to meet this unprecedented demand." He further went on to welcome the Spirit employees for joining hands with them in this noble cause."

Spirit AeroSystems, one of the world's largest non-OEM designers and manufacturers of aero structures for commercial and defence aircraft has converted their facility in Wichita, Kan to manufacture and supply critical care ventilators. Currently the design of the production system is underway. Teams of experts are getting the facility ready with production materials, critical equipment and building infrastructure to stand up manufacturing lines. Special staff of about 70 Spirit employees is being trained to assign to this special project.

Mirroring Mr. Agarwal's thoughts Tom Gentile, President and CEO of Spirit AeroSystems said, "This collaboration is an opportunity for Spirit to help at a time when our nation needs it most. We are honoured to bring our industrial capabilities and skilled workforce to help Vyair scale up quickly to produce much-needed ventilators during this pandemic."

This partnership furthers earlier action taken by Vyair to accelerate production of ventilators and other related respiratory equipment at its primary production facilities based in North America.

Vyair has provided the US Strategic National Stockpile with 22,000 of its LTV2 2200 ventilators. They are also working with various hospitals and health system clients to ensure a speedier delivery of ventilators to patients of greatest needs.

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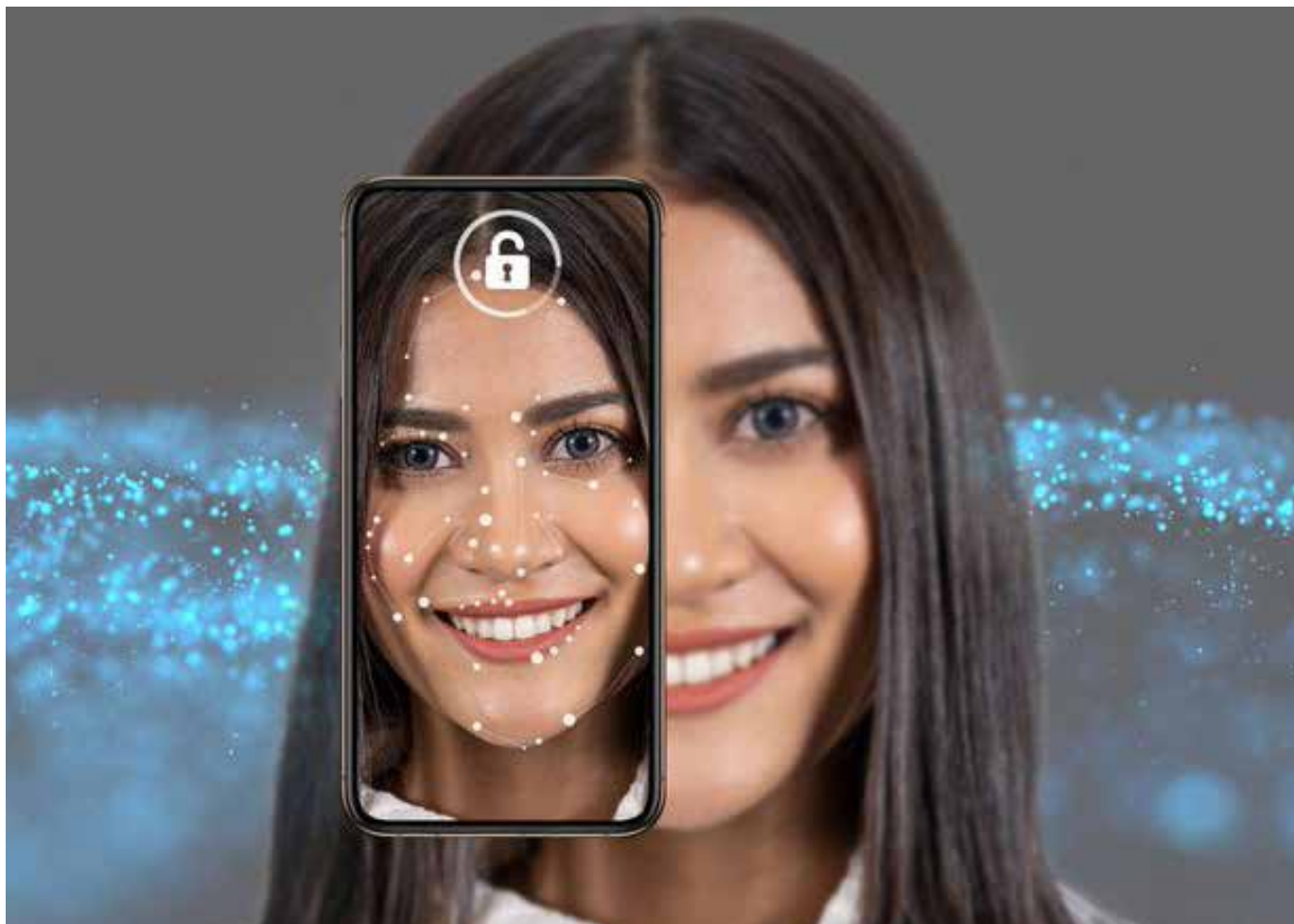
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# ‘Your face is your passport’ with digital identity as the new mantra



In the COVID-19 phase when social distancing is the new normal and no-touch will be the new policy, SITA has stepped up to develop a permanent digital identity for air travel. This identity will be accepted by governments, airlines, airports globally ensuring privacy and protection of the user's digital identity.

The Smart Path technology deployed by SITA at airports successfully streamlines the complete departure process through the use of a single biometric token. At every step of the journey the passenger's face will be the passport right from check-in to boarding.

Gustavo Pina, Director of the SITA Lab said, "We expect in the coming years that the development of a universally accepted digital identity will replace the traditional passport. This will allow

travel across borders with any airline or airport while ensuring that you, as the passenger, remain in full control of your identity while providing actionable, trusted data only to appropriate parties such as border agencies."

Besides this, SITA has also become a Premium Donor of the Sovrin Foundation. It is an international non-profit organization focused on the advancement of self-sovereign digital identity. Its main aim is to transform the current broken online identity system which is open to misuse and fraud. The self-sovereign identities can be useful in various other operations like to lower financial transaction costs, protect people's personal information, limit opportunity for cybercrime, and simplify identity challenges in a variety of fields including travel, healthcare, banking, IoT and voter fraud.

He further added, "The benefits include a reduced arrivals infrastructure, providing new opportunities to increase existing airport throughput by design and not expansion. Our work with the Sovrin Foundation will play an important role in unlocking that potential."

The Sovrin Foundation is a decentralized, global public utility for self-sovereign identity. Self-sovereign means a lifetime portable identity for any person, organization, or thing that allows the holder to present verifiable credentials in a privacy-protecting way. These credentials can represent things as diverse as a passport, an airline ticket or simply a library card.

Now onwards the Smart Path technology will be integrated with the self-sovereign identity.

# Passengers on repatriation flights can now transit through Changi

In the recent announcement by the Civil Aviation Authority of Singapore (CAAS) foreign passengers on repatriation flights will be able to transit through Changi Airport starting 2nd June 2020.

However the airlines need to submit their proposals to CAAS for evaluation. Singapore is slowly opening their doors to international travellers while maintaining stringent safety norms. This measure will be effective from 2nd June 2020.

Also, transit passengers are to remain in a designated facility in transit area and they won't be allowed to mix with the airport crowd. Airport staff needs



to adhere to strict norms like wearing the PPE kit, maintain social distancing and taking thermal scans or temperature checks of these passengers. Apart from Changi, a lot of other Interna-

tional borders are opening up with strict rules in place after about two months of lockdown which brought the civil aviation industry almost to a standstill.

## Qatar gears for safe and hygienic air travel with enhanced measures

As the world prepares itself for a post COVID-19 phase, the sealed international borders are starting to open up for air travel. On this encouraging note, airlines and airports have left no stone unturned to ensure a hygienic and safe air travel for the passengers.

### Here's how Qatar Airways have planned their post COVID-19 air travel.

- ✦ The cabin-crew will be wearing the PPE suits at all times on-board above their uniform in addition to gloves, goggles and masks.
- ✦ Interaction between passengers and crew will be kept at a minimal to encourage social distancing with a modified service in place.
- ✦ Passengers are required to wear a face mask at all times.
- ✦ Business class will be served meals on a tray instead of a table set up, and a cutlery wrap will be offered to passengers as an alternative to individual cutlery service.
- ✦ In Economy Class, all meals and cutlery are served sealed as usual.
- ✦ Additionally large bottle of sanitizers

will be placed in gallery.

- ✦ All social-distancing areas on-board will be closed.
- ✦ Business class passengers can avail of Qsuite which provides sliding partitions and fully closing doors for enhanced privacy.
- ✦ Qatar aircraft are disinfected by using cleaning products recommended by IATA and WHO.
- ✦ Its home airport, Hamid airport is using disinfectant robots, fully autonomous mobile emitting concentrated UV-C light to eliminate infectious microbes.
- ✦ Qatar had HEPA filters which remove 99.97 per cent of viruses and bacteria from re-circulated air.
- ✦ All on-board linen and blankets are washed, dried and pressed at microbial lethal temperatures.
- ✦ All headsets are removed of ear foams and rigorously sanitized after each flight.
- ✦ Meal service utensils and cutlery are washed with detergents and rinsed with demineralized fresh water at temperatures that kill pathogenic bacteria.

- ✦ All cabin crew are thermally screened before and after each flight.

Since mid-February, Qatar Airways has helped reunite over one million passengers with their loved ones, operating a mix of scheduled and charter services plus extra sectors.

Qatar Airways Group Chief Executive, His Excellency Mr. Akbar Al Baker said "At Qatar Airways, we have introduced these additional safety measures on-board our flights to ensure the continued health and wellbeing of our passengers and cabin crew, and to limit the spread of coronavirus. As an airline, we maintain the highest possible hygiene standards to ensure that we can fly people home safely during this time and provide even greater reassurance that safety is our number one priority."

"Seeing as we are still flying the world's largest international network by operating flights to more than 30 destinations around the world, and aiming to grow our network again in the coming months, these on-board safety measures will assist us in achieving our goals." He further added.

# RUAG Australia awarded Department of Defence SICP grand



In an important milestone RUAG Australia has recently received the Australian Department of Defence's Sovereign Industrial Capability Priority (SICP) grant. This grant has not only recognised RUAG Australia as an essential contributor to nation's defence industry capability, but will also help RUAG to grow its capacity and supply

chain resilience in strategic support of Defence and aircraft sustainment.

Commenting on the investment, Terry Miles, General Manager RUAG Australia said, "This investment will reduce our barriers to global competitiveness, provide greater reliability, and provide further assurance that quality requirements are continually met."

**RUAG Australia has big plans with this grant:**

- ✦ It will enhance their capability for MRO of hydraulic components.
- ✦ It will help to improve manufacturing efficiency and cost competitiveness on behalf of their customers.
- ✦ Upgrade and expand 5 facilities across Australia.

RUAG plans to capture a larger share of defence global supply chains and this grant is exactly what was needed. "Investment in expansion is crucial to growing our Australian business," said Stephan Jezler, Senior Vice President Aviation International, RUAG MRO International. "We appreciate the Australian Government's support in facilitating fast decisions in expansion projects," he further added.

Besides this, the grant will also come in handy as the company announced recent upgrades to the Hydraulic Centre of Excellence at RUAG's Bayswater site.

# Saab 2000 Erieye to keep an Eye on border surveillance and search & rescue ops

Saab has received a massive order of 1.553 billion SEK for Saab 2000 Erieye AEW&C system.

It is complete with multi-role and multi-mission capabilities for both military and civil needs and gives the user detailed situational awareness and can be used for tasks including border surveillance and search-and-rescue operations.

This Airborne Early Warning and Control solution is based on Saab 2000 aircraft with Saab's airborne radar Erieye and a range of other sensors.

Due to the industry nature and circumstances concerning the product and customer, further information about the customer will not be announced.





# AAR Integrated Technologies to provide logistical support to US Air Force program

**A**AR Integrated Technologies is awarded with a firm-fixed-price (FFP) five year contract worth USD 5.1 million.

As per the contract AAR has to provide contractor logistical support (CLS) to supply all the AN/MSN-7 parts, support equipment components, all system materials and consumables as well as replenishment of spare parts for a fleet of 18 AN/MSN-7 Communication Central Systems or Tower Restoral Vehicle (TRV).

Apart from this AAR will also provide

depot-level maintenance and system level down to Line Replaceable Unit (LRU) level repair as needed, procurement, and installation services on an as required basis. Thus it will ensure that the TRV will remain operational and sustainable for future missions. It provides rapidly deployable Air Traffic Control (ATC) tower services for USAF deployment operations, such as bare bases and alternate off-base landing areas.

Jeffery Jackson, Vice President and

General Manager, AAR Integrated Technologies expressed his feeling of immense pride in receiving the contract. He said, "This multi-year firm-fixed-price contract will ensure that the AN/MSN-7 fleet will maintain a high state of operational readiness along with upgrading to state-of-the-art equipment to meet the US Air Force's mission requirements."

AAR a leading provider of aviation services to commercial and government operators.



# King Air 350 continues to be aircraft of choice for US homeland security

**U**S Customs and Border Protection (CBP) Air and Marine Operations (AMO) have awarded a contract for two additional Beechcraft King Air 350 CER to Textron Aviation.

They will be used to safeguard the United States homeland as part of the coordinated application of CBP's aviation and maritime law enforcement resources.

Bob Gibbs, vice president, Special Mission Sales said, "These aircraft can fly six-hour missions and can deploy to hot spots where multi-sensor patrols assist both ground and marine agents to detect, interdict and prevent acts of terrorism as well as the unlawful movement of people, illegal drugs and other contraband toward or across the borders of the United States."

Sierra Nevada Corporation will undergo mission modifications in these aircraft after which they will join a fleet of 23 other King Air 350. The aircraft is operated by a crew of four, including two highly trained sensor operators who employ the mission equipment and coordinate the information flow to the ground.

# New milestone of the two decade long partnership between Lockheed and CAE

CAE USA will provide support in the designing, developing and manufacturing of three C-130J full-mission simulators for the United States Air Force Special Operations Command (AFSOC) based on a subcontract awarded by Lockheed Martin. These three MC/EC-130J simulators will be delivered to various air bases in 2023.

Out of the three, one of the C-130J simulators will be reconfigurable between the MC-130J and EC-130J, a variant used for information operations by AFSOC while the other two will be specifically used for the MC-130J variant, multi-mission transport and special operations tanker operated by AFSOC. This full-mission simulator will be full-motion and accurately simulate the aircraft and its various missions by recreate the sounds, motion, virtual environment and all other aircraft systems required to provide a high-fidelity, realistic flight training environment.

Stressing the importance of a two decade old partnership between Lock-



heed Martin and CAE, Ray Duquette, President and General Manager, CAE USA said, "The design and development of training systems for the C-130J Super Hercules and its variants has proven to be a great partnership. The high-fidelity simulation capabilities of these MC-130J and EC-130J full-mission simulators will enable Air Force Special Operations Command to continue increasing

the use of synthetic training across the overall training curriculum, which contributes to the safe and cost-effective readiness of the aircrews."

Lockheed Martin and CAE have designed and developed a range of C-130J training systems for all branches of the United States Air Force, including Air Mobility Command, Air Combat Command, Air National Guard and AFSOC.

# Boeing's X-37B autonomous space plane successfully launched atop Atlas V rocket

In a partnership mission between the Department of the Air Force Rapid Capabilities Office and the United States Space Force, Boeing's sixth X-37B autonomous space plane launched successfully. The plane was launched on top of uniquely configured United Launch Alliance Atlas V rocket and is the first one to use a service module with additional payload capability.

This mission will deploy the FalconSAT-8 to conduct experiments on orbit like NASA's experiment on studying the impact of radiation and other space ef-

fects on certain materials and seeds used to grow food & Naval Research Laboratory's experiment on transforming solar power into radio frequency microwave energy, testing test reusable space vehicle technology and many more.

Praising the sixth mission of X-37B, Jim Chilton, Boeing Space and Launch senior vice president said, "The X-37B has shifted the paradigm and redefined efficiency in space development. The rapid technology advancements enabled by the program will benefit the entire space community and influence the

next generation of spacecraft design."

Being the prime contractor for X-37B, Boeing is facilitating the integration of all experiments in the vehicle to ensure that they receive correct power, thermal and data services required. Also, all the program management, engineering, test and mission support functions for the Orbital Test Vehicle (OTV) program are conducted at Boeing sites in Southern California and Florida. Boeing also works to identify future reusable platform experiment opportunities on each mission.



# Combat mission aircraft zoom into digitised future

Digitalisation in defence will be the future of combat on battlefields in years to come. Northrop Grumman is helping shift the rotary wing fleet in US department of defence from analog to digital. One of the most recent examples of digital transformations is the Future Vertical Lift (FVL). It includes the future attack reconnaissance aircraft (FARA) and the future long-range assault aircraft (FLRAA) for the Army, as well as the attack utility replacement aircraft (AURA) for the Marine Corps. All its systems are connected by digital backbone making it more faster, more lethal and more survivable aircraft in the battlefield.

It is one of the most sophisticated rotorcraft to enter military service be it transport, logistics, strike or reconnaissance duties. They are a combat multiplier as

well as a lifeline in austere environments.

James Conroy, vice president, navigation, targeting and survivability, Northrop Grumman said, "Just as a mobile phone relies on an operating system to connect apps and sensors, this digital backbone will allow the next generation of avionics and self-protection systems to work in a unified way."

With future generations of FVL aircraft planned to operate alongside the enduring fleet of Apaches, Black Hawks and Chinooks, ensuring interoperability and commonality within Army Aviation will also be a top priority. Investments in FVL must enable the enduring fleet to be capable of multi-domain operations concurrently.

"Some of the aircrew who will fly on these aircraft have not even been born yet. That's how far into the future we

need to think," said Conroy. "The way we will keep these aircraft relevant into the 2060s and beyond is open architecture."

"Our architecture is a flying prototype of what FVL can be," said Conroy. "These are the capabilities that will enable FVL and the enduring fleet to become the connected and interoperable fleet the Army envisions."

Northrop Grumman is delivering mission computers to US Marine Corps for the AH-1Z and UH-1Y helicopters over two decades now. Lately they are also digitalising the cockpit of UH-60L Black Hawk helicopter. The digitised upgraded version is UH-60V. It is a clean sheet model-based system engineering operating environment designed to support the most advanced platforms and their missions.

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## UNIVERSAL AVIONICS RESTRUCTURES EXECUTIVE TEAM



Universal Avionics have made numerous changes in the executive team in an effort to align the organisation to achieve more innovation, product designs and overall efficiency.

**Mr. Gil Rivnai** is promoted from Head of Engineering to the post of Vice President of Engineering. He joined UA in 2018 as Director of Enhanced



Vice President of Business Development to include Marketing and Services. Marc has over two decades of experience in Aerospace industry. He has worked for over 12 years in sales and management roles at Esterline Avionics Systems and CMC Electronics. Earlier he has also served in various engineering and product management roles for Bombardier Aerospace.

Commenting on the recent changes Dror Yahav, UA Chief Executive Officer said, "We are focused on uniting, extracting synergies, and leveraging our competencies throughout the entire organization."

Besides these two appointments, Dan Reida, Vice President of Sales, Marketing and Support will be retiring after serving the company for three decades. He played a major role on the success of introducing new products and capabilities to the market.

Flight Vision System Products. Prior to this he has worked with Elbit systems, Aerospace Division. He served various engineering roles ranging from board design, product management, team and department leadership, to chief engineering.

In another major announcement **Mr. Marc Bouliane's** role is expanded from

## JAVIER HERNANDEZ TO DEVELOP C&L'S RELATION WITH LATIN AMERICAN REGIONAL AIRLINES

**Javier Hernandez** is appointed as the regional sales manager for C&L Aerospace for Central and South America including Mexico. His experience in aircraft part sales with a proven track record of creating innovative solutions will help develop C&L's relations with Latin American regional airlines.

Praising Javier, Martin Cooper, Senior Vice President of Sales said, "We are thrilled to add Javier to our deep and experienced global sales team. Javier has strong customer relations and experience in the region and will play a major role in our business growth strategy."



# International CALENDAR



## 2020

**09-11**  
**JUNE**

**AIR Convention Asia**  
Bangkok, Thailand

**01-03**  
**SEPT**

**MRO Americas**  
Dallas, TX, USA

**22-24**  
**SEPT**

**MRO Asia-Pacific**  
Singapore

**28 SEPT**  
**01 OCT**

**World Financial Symposium**  
Dubai, UAE

**27-29**  
**OCT**

**MRO Europe**  
Barcelona, Spain

**27-29**  
**OCT**

**Airline Industry  
Retailing Symposium**  
Vancouver, Canada

**27-29**  
**OCT**

**AP&M Europe**  
Spain

**08-10**  
**DEC**

**The MEBAA Show**  
DWC, Dubai Airshow Site, UAE

## 2021

**16-18**  
**FEB**

**Saudi International Airshow**  
Thumamah Airport, Riyadh,  
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**22-23**  
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