



## JULY 2021

Military AI brought to you by the editors of [Militaryembedded.com](http://Militaryembedded.com) focuses on artificial intelligence technology in the defense and aerospace domain, bringing readers coverage on machine learning, neural networks, and deep learning techniques leveraged in military and aerospace applications.



### AI- and ML-enabled spectrum management tech goal of DoD research

EMMA HELFRICH, TECHNOLOGY EDITOR

The U.S. Department of Defense (DoD) has issued a third Request for Prototype Proposal (RPPs) in support of electromagnetic spectrum research related to the capabilities of the over 400 members of the National Spectrum Consortium.

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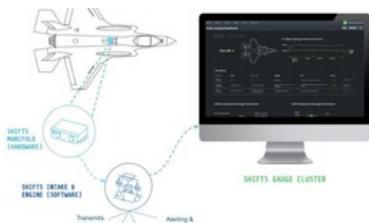


### Intelligent environments for Army goal of recent AI-focused contract

EMMA HELFRICH, TECHNOLOGY EDITOR

The U.S. Army Research Office awarded AURA Technologies a \$50 million contract focused on artificial intelligence (AI)-based systems. AURA Technologies is a company that specializes in various aspects of AI, including machine learning algorithms for both time and frequency-domain data, computer vision, and image recognition.

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### Predictive maintenance solution uses platform data to increase operational readiness

EMMA HELFRICH, TECHNOLOGY EDITOR

Shift5, Inc., an operational technology data and cyber security company, has released a solution for real-time predictive maintenance technology for Department of Defense (DoD) weapon systems. The solution combines hardware and software so platform owners and operators can gain visibility into their fleet health status to decrease maintenance costs and increase operational readiness.

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## VR training solutions from SimX get four new contracts from U.S. Air Force, Space Force

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Medical-focused virtual reality (VR) company SimX -- in a continuation of its partnership with the U.S. Air Force (USAF) and U.S. Space Force -- won four new contracts totaling more than \$1.5 million to develop innovative training solutions for special operations forces.

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## Cross-platform sensor data to be analyzed under signals intelligence contract

EMMA HELFRICH, TECHNOLOGY EDITOR

Raytheon Intelligence & Space, a Raytheon Technologies business, announced it will provide signals intelligence field services for the U.S. Air Force's Distributed Common Ground System, which collects, processes, and analyzes intelligence.

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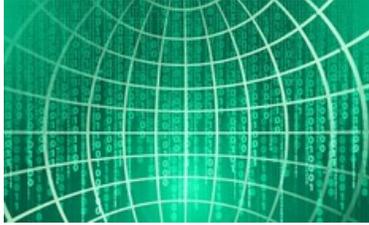
## Robotic dogs equipped with sensors and AI integrated at Air Force base

EMMA HELFRICH, TECHNOLOGY EDITOR

Teams within the Force Protection and Special Programs Divisions supplied and integrated the 325th Security

Forces Squadron with four prototype Quad-legged Unmanned Ground Vehicles, sometimes referred to as 'robotic dogs'. They are semi-autonomous robots that can provide surveillance and perimeter security in difficult terrain or in harsh or unsafe conditions.

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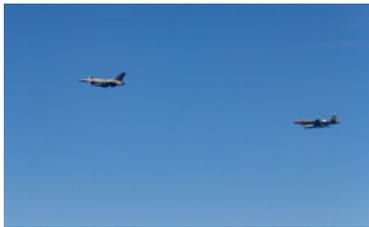


## AI and ML to improve Air Force training programs under contract with SGS

EMMA HELFRICH, TECHNOLOGY EDITOR

SparkCognition Government Systems (SGS), an artificial intelligence (AI) company devoted entirely to government and national defense, announced that along with Intrinsic Enterprises Inc, a technology services and product development company, it has won a contract with The Air Force Research Laboratory (AFRL) through its SBIR program.

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## Autonomy Core System aboard unmanned aircraft completes first tests

EMMA HELFRICH, TECHNOLOGY EDITOR

The 96th Test Wing took part in a series of flight tests using a 19-foot unmanned aircraft launched from Tyndall Air Force Base from April 29 to May 5. Inside the aircraft, the Autonomy Core System (ACS), identified as the "brain" of the autonomous aircraft, made its first three flights for the Autonomous Attributable Aircraft Experiment.

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## AI-powered ship and aircraft maintenance to be delivered to U.S. Navy

EMMA HELFRICH, TECHNOLOGY EDITOR

The U.S. Navy announced that it has chosen Lockheed Martin and enterprise applications company IFS to deliver an intelligent maintenance solution that will aim to help power its digital transformation of multiple legacy systems into a single modernized logistics information system.

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## AI Transportable Market

ONE STOP SYSTEMS (OSS)

The general edge computing market not only continues to grow quickly, but also to segment quickly, creating new opportunities for forward-looking organizations. "AI transportables" is one such emerging edge segment, combining advanced high-performance computing, in-depth AI support and rugged packaging.

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