



## DECEMBER 2021

Military AI brought to you by the editors of [Militaryembedded.com](https://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.



### 5G and edge computing maritime solutions to be researched by AT&T and NPS

EMMA HELFRICH, TECHNOLOGY EDITOR

AT&T and the Naval Postgraduate School (NPS) have entered into an agreement to explore and develop 5G and edge computing-based maritime solutions aimed at benefitting national defense and homeland security among others.

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### Supercomputing platform from Penguin Computing to be installed at several DoD sites

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Penguin Computing (a division of SMART Global Holdings) has won two contracts totaling \$68 million from the U.S. Department of Defense (DoD) High Performance Computing Modernization Program (HPCMP) to supply its TrueHPC supercomputing platform, plus managed services and high-performance storage, to the Navy and Air Force Research Laboratory DSRC [DoD Supercomputing Resource Center] sites.

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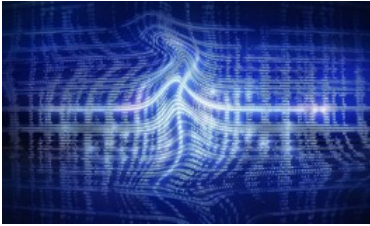
### Autonomous space-mission networking contract with NASA won by Rebel Space Technologies

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Software firm Rebel Space Technologies has won a NASA Phase II Small Business Innovation Research (SBIR) contract for its proposal titled "SpaceWeaver: A Collaborative Smart Network for Space Communications," which posits that the company use its proprietary Rebel Cognitive Communications & Control

software (Rebel-C3) to accomplish autonomous network management during space missions in tandem with its partner Prewitt Ridge's VerifAI capability.

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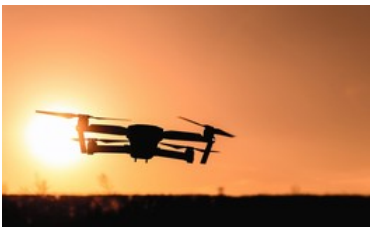


## CTI to provide software and multi-domain analysis for manned and unmanned vehicles

EMMA HELFRICH, TECHNOLOGY EDITOR

CTI announces it has won a \$188 million General Services Administration (GSA) FEDSIM Small Business Innovation Research (SBIR) Phase III contract designated as Multi-Domain Analysis, Evaluation, and Software for Tactical and Remote Operations (MAESTRO).

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## AI-powered non-lethal C-UAS system defeats threats in Army test

EMMA HELFRICH, TECHNOLOGY EDITOR

Fortem Technologies announced that their DroneHunter defeated threat drones during a recent U.S. Army test in Yuma Proving Ground, Arizona. DroneHunter is an artificial intelligence (AI)-enabled, radar-guided drone that locks onto its target, fires a net, captures the threatening drone and tows it to a safe deposit location.

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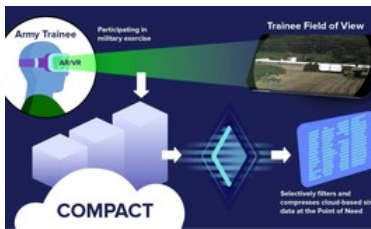


## Amphibious version of C-130J aircraft in the works for the U.S. Air Force, built using VR and AI modeling

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The U.S. Air Force Special Operations Command (AFSOC) -- together with the Air Force Research Lab's Strategic Development Planning and Experimentation (AFRL-SDPE) directorate -- is currently developing a variant of the venerable C-130J "Super Hercules" aircraft: an MC-130J Commando II Amphibious Capability (MAC) to improve the platform's support of seaborne special operations.

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## Virtual reality architecture developed for Army by Charles River Analytics

EMMA HELFRICH, TECHNOLOGY EDITOR

Charles River Analytics developed a Compressed Parallel Architecture for augmented reality (AR)/virtual reality (VR) training in data-constrained terrain (COMPACT) for the U.S. Army.

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## Data analysis task order won by CGI for DIA intelligence processing

EMMA HELFRICH, TECHNOLOGY EDITOR

CGI has won a \$100 million Defense Intelligence Agency (DIA) Data Transformation of Foundational Military Intelligence (DTMI) task order to evolve the way the DIA processes its intelligence, military, and infrastructure data.

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## SOSA aligned graphics card for AI applications released by EIZO

EMMA HELFRICH, TECHNOLOGY EDITOR

EIZO Rugged Solutions Inc., provider of ruggedized graphics and video products, has introduced the Condor GR5S-RTX5000 – a rugged OpenVPX 3U form factor graphics and general-purpose graphics processing unit (GPGPU) card that hosts the discrete NVIDIA Quadro RTX 5000 GPU (TU104) and is aligned with the Sensor Open Systems Architecture (SOSA) technical standard.

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## New Supercomputer Enables Rugged, Real-Time AI at the Edge

ONE STOP SYSTEMS (OSS)

OSS designed the new Rigel: Edge Supercomputer to overcome these shortcomings. The result is a modular, compact, scalable, and rugged server that lets program managers establish survivable AI use cases in the field.

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