



Source: [Rocket Lab](#)

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LAND AND SEA

The *USS CARL M LEVIN* completes flight test of Vigilant Wyvern, above the Pacific missile test range facility in Hawaii. Utilizing the latest Aegis combat system advancements, the test engaged multiple anti-ship cruise missile and ballistic missile defense targets simultaneously, marking a significant milestone for the system.

Source: [Lockheed Martin](#)

SOFTWARE, SYSTEMS, AND CYBER

Aerobotix, a robotics integrator serving the aerospace and defense sectors, will showcase a new mobile robot at the Westec AeroDef manufacturing conference in Long Beach, California, scheduled between November 7 to 9, 2023. The move marks the robot's inaugural public demonstration, purpose-built for aerospace and defense applications.

Source: [Aerobotix](#)

SPACE AND AEROSPACE

Rocket Lab USA, a launch services and space systems company, gained approval from the Federal Aviation Administration to recommence electron launches from Launch Complex 1. The approval follows an in-flight anomaly encountered during the company's forty-first electron launch on September 19, 2023.

Source: [Rocket Lab](#)

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SPACE AND AEROSPACE

Following the successful Test Vehicle-D1 (TV-D1) mission on October 21, 2023, the Indian Space Research Organization (ISRO) plans a series of upcoming test missions for the *Gaganyaan* program. The missions include the TV-D2 mission, the G-X unmanned orbital demonstration flight, an integrated air-drop test, and a pad abort test.

Source: [DRDO](#)

Skyroot Aerospace reveals its indigenous *Vikram-1* rocket, set to deploy satellites into low earth orbit (LEO) in early 2024. The multi-stage launch vehicle can carry payloads of approximately 300 kilograms to LEO. After the successful launch of the *Vikram-S* rocket year, *Vikram-1* will be Skyroot's second rocket slated for launch in 2024.

Source: [The Economic Times](#)

Scientists from the Air Force Research Laboratory initiate the first-ever international Cooperative Research and Development Agreement (CRADA) between the U.S. Space Force and foreign companies. The collaboration involves two Indian startups, 114AI specializing in dual-use artificial intelligence software for domain awareness, and 3rd ITECH, India's primary image sensor company.

Source: [The Air Force Research Laboratory](#)

BUSINESS UPDATES

Lockheed Martin grants Terran Orbital Corporation, an engineering change proposal to accommodate extra payloads. The \$7.7 million contract for modification supplements an ongoing satellite design and manufacturing program, expanding the total contract value to over \$52 million.

Source: [Terran Orbital](#)

Intelsat, a major network operator and prominent inflight connectivity provider, enters a memorandum of understanding (MoU) with Aalyria, based in California. The MoU involves financial commitments to advance the development of innovative optical technology for transferring extensive data between ground and space.

Source: [Aalyria](#)

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GOVERNMENT UPDATES

India and the European Union (EU) conducted their inaugural joint naval exercise on October 24, 2023. The exercise followed the third meeting of the EU-India Maritime Security Dialogue held on October 5, 2023, in Brussels. The Indian Navy's INS *Sumedha* collaborated with three EU member states' ships during the exercise in the Gulf of Guinea.

Source: [Press Information Bureau](#)

The Bharat National Cyber Security Exercise, 2023 took place between October 9 and October 20, 2023 at the SCOPE Convention Centre in New Delhi. The event served as a unifying platform for over 300 participants, representing a diverse spectrum of government agencies, public organizations, and the private sector.

Source: [Press Information Bureau](#)

The joint bilateral training exercise *Exercise Harimau Shakti, 2023* between the Indian and Malaysian Army begins at Umroi cantonment, India. The previous edition of this exercise took place in Pulai, Kluang, Malaysia, in November 2022. Scheduled until November 5, 2023, *Ex Harimau Shakti* aims to improve military capabilities for multi-domain operations in a sub-conventional scenario.

Source: [Press Information Bureau](#)

The Department of Defense confirms a bilateral, non-binding security of supply arrangement with the Republic of Lithuania. The agreement allows both the U.S. and Lithuania to efficiently obtain necessary industrial resources to address defense needs, tackle unforeseen disruptions impacting defense capabilities, and reinforce supply chain resilience.

Source: [Department of Defense](#)

The Department of Defense reveals plans to develop a modern version of the B61 nuclear gravity bomb known as the B61-13, pending approval and funding from Congress. The National Nuclear Security Administration (NNSA) under the Department of Energy would oversee the production of the B61-13. The decision, made in collaboration with the NNSA, aligns with the evolving security landscape outlined in the 2022 Nuclear Posture Review.

Source: [Department of Defense](#)

The U.S. Navy launched the USNS Robert F. Kennedy (T-AO 208) as the newest John Lewis-class fleet replenishment oiler on Saturday, October 28, 2023 in San Diego.

Source: [U.S. Navy](#)

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TENDERS AND REQUEST FOR PROPOSALS

U.S. Navy selects CAES, a top supplier of vital advanced electronics, to produce the AN/ALQ-99 low band consolidation transmitter.

Source: [CAES](#)

NASA awards CACI International a contract of over \$150 million to continue supporting NASA's spaceflight systems, simulation, and software, focusing on advanced aerospace engineering for crewed spacecraft, simulations, virtual reality applications, and software aiding human space flight.

Source: [CACI](#)

The U.S. Naval nuclear propulsion program grants BWX Technologies a \$300 million contract to task BWXT's subsidiary, Nuclear Fuel Services, with manufacturing and supplying naval nuclear reactor fuel. The produced fuel will serve the naval reactors program, supporting various U.S. Navy submarines along with aircraft carriers like the Nimitz and Ford Classes.

Source: [BWXT](#)

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