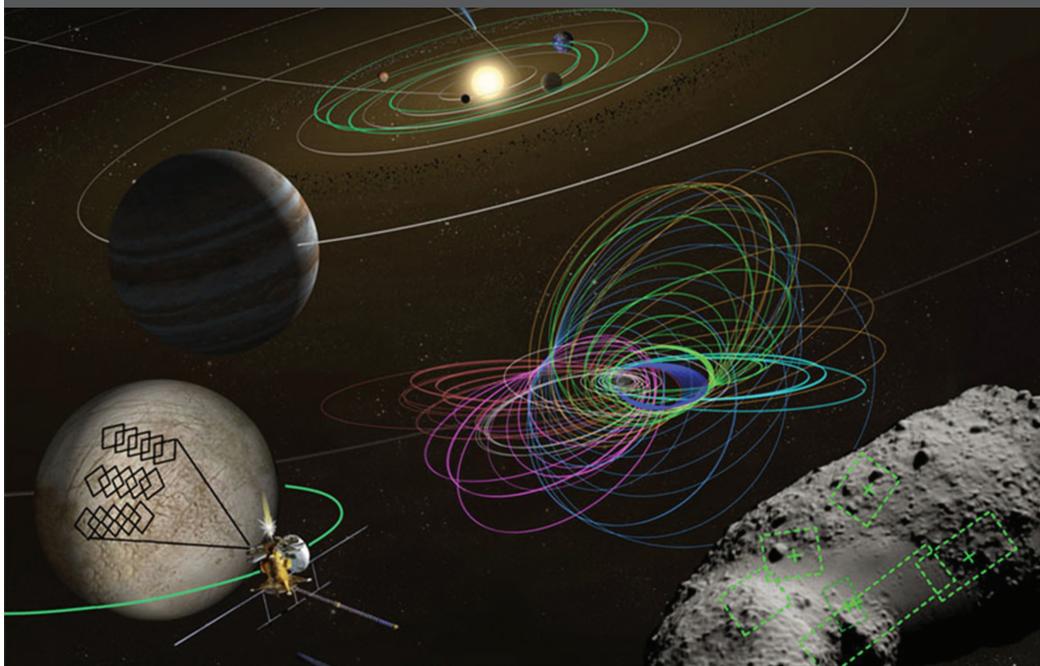


# DEFENSE

## Systems Digest

The Latest From the Defense Systems Information Analysis Center // December 6, 2022



Solar System Exploration Directorate

## NOTABLE TECHNICAL INQUIRY

### Can you provide introductory summary on guidance, navigation, and control (GNC)?

This response was provided to broaden the technical knowledge of the inquirer's technology management staff regarding guidance, navigation, and control (GNC), particularly GNC theory and technology applications related to aerial/space platforms and missiles. GNC is focused on the design of systems to control the movement and position of platforms such as missiles, space and airborne platforms, ground vehicles, and maritime and underwater platforms. GNC systems are constantly being improved to provide better target location accuracy and precision; faster attitude... [LEARN MORE](#)



## SNEAK PEEK

**UPCOMING WEBINAR:**  
*Cost-Effective Verification, Validation, and Accreditation (VV&A) in the Systems Engineering Process: Focusing V&V on A*

**DATE:**  
December 7, 2022

**TIME:**  
12:00 PM

**PRESENTED BY:**  
David Hall

**HOST:**  
DSIAC



## VOICE FROM THE COMMUNITY

### Will Hamilton

*F-35 Joint Program Office, Booz Allen Hamilton*

Will Hamilton supports the F-35 Joint Program Office as an analyst for Booz Allen Hamilton’s Block 4 program. He has 18 years of experience in radar and electronic warfare integration, including 14 years with Lockheed Martin. At Lockheed Martin, he served as the flight test integration lead of the AN/APS-153(V) radar on the U.S. Navy’s MH-60R helicopter and started an anechoic chamber testing program for the F-35 at the Naval Air Station Patuxent River, MD.

## ARE YOU A SME?

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## HIGHLIGHT

### 2022 Report on Military and Security Developments Involving the People’s Republic of China

On November 29, 2022, the U.S. Department of Defense (DoD) released its annual report on “Military and Security Developments Involving the People’s Republic of China,” commonly known as the China Military Power Report. This Congressionally mandated report serves as an authoritative assessment of the Department’s pacing challenge and charts the current course of the PRC’s military and security strategy. [LEARN MORE](#)

## FEATURED NEWS

### U.S. Participates in Multi-carrier Exercise to Showcase Cohesion, Interoperability

U.S. aircraft carriers USS George H.W. Bush and Gerald R. Ford are now engaged in a regularly scheduled multinational multi-carrier exercise to showcase the cohesion and interoperability of participants. The operation takes place in the Atlantic Ocean, the North Sea, and parts of the Mediterranean Sea, Deputy Pentagon Press Secretary Sabrina Singh said.



The maritime operation is formed around the French aircraft carrier Charles de Gaulle and also includes the Italian carrier Cavour and the United Kingdom’s HMS Queen Elizabeth. [READ MORE](#)

*Image: U.S. Navy*



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NAVAIR

## WEBINARS

### Cost-Effective Verification, Validation, and Accreditation (VV&A) in the Systems Engineering Process: Focusing V&V on A

*Presented: December 7, 2022 12:00 PM*

*Presenter: David Hall*

*Host: DSIAC*

The U.S. Naval Air Warfare Center Aircraft Division (NAWCAD) Warfare Effectiveness Department (WED) VV&A Branch has developed and executed a cost-effective, risk-based VV&A process for modeling and simulation (M&S) used to support the U.S. Department of Defense (DoD). **LEARN**

**MORE**



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### Development and Utilization of TIPS Within the FRACTALS at the DEVCOM Analysis Center

January 11, 2023 12:00 PM

## EVENTS

### Military Standard 810 (MIL-STD-810) Testing Open Course

January 23–26, 2023

### Military Additive Manufacturing 2023

February 1–2, 2023

### UAV Technology USA 2023

February 6–7, 2023

### Military Aviation & Air Dominance Summit

February 22–23, 2023

### Want your event listed here?

Email [contact@dsiac.org](mailto:contact@dsiac.org), to share your event.

## DID YOU MISS OUR LAST WEBINAR?

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-  Weapons Systems

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## RECENT NEWS



U.S. Army

**AIAMD System Successfully Intercepts Target in Missile Defense Flight Test**

U.S. Army



U.S. Air Force

**AFRL Enhances Computed Tomography Lab With State-of-the-Art Infrastructure, Imaging Capabilities**

U.S. Air Force



DVIDS

**Flying Cranes: Marines and Airmen Join Forces in MAC-50 Modernization Efforts**

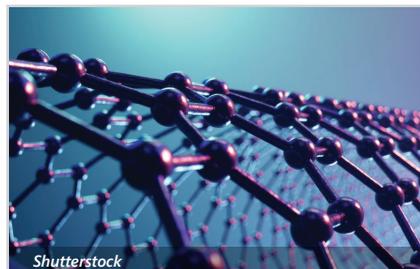
U.S. Marine Corps



U.S. Air Force

**Air, Space Forces Transition to AFWERX 3.0**

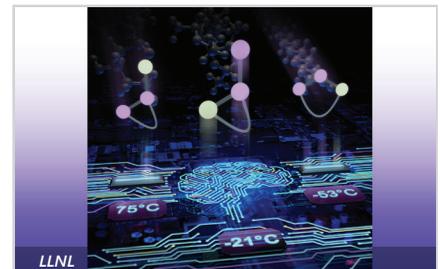
Air Force Material Command



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**Organizing Nanoparticles Into Pinwheel Shapes Offers New Twist on Engineered Materials**

University Of Illinois Urbana-Champaign



LLNL

**Machine-Learning Model Instantly Predicts Polymer Properties**

Lawrence Livermore National Laboratory

