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1. AF141-093: Development and Verification Tools/Processes for ASICs and FPGAs

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Innovative solutions for providing U.S. domestically-owned ASIC/FPGA testing processes/tools capabilities to certify against malicious code/electronics design that could cause unintended consequences from nuclear operational applications. DESCRIPTION: Programmable Logic Devices, such as FPGAs and ASICs, controlling U.S. nuclear weapons must have the highest possible assurance of ...

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2. AF141-094: Algorithm Based Error Estimation & Navigation Correction

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop and demonstrate an algorithm-based scheme that improves navigation accuracy and responsiveness of inertial-based navigation systems. DESCRIPTION: The U.S. Air Force would like to explore more accurate and more robust navigation capabilities for strategic systems. The strategic system is heavily dependent on the Inertial Measurement Unit (IMU) for strategic system navigat ...

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3. AF141-096: Radiation Hardened Cache Memory

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop a power efficient, high speed, radiation hardened memory device suitable for long term space missions by using carbon nanotubes (CNT) or other innovative materials and processes, (e.g.graphene), processes (3-D), & architectures (memristive). DESCRIPTION: In order to meet projected growth in broadband military satellite communications, future generations of payloads will ...

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4. AF141-097: Next Generation Rad Hard Reduced Instruction Set Computer

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Develop a radiation-hardened Advanced Reduced Instruction Set Computer suitable for use in long-term space missions. DESCRIPTION: As satellite payload processing becomes more broadly distributed across subsystems, there will likely be an increased need for a new generation of smaller (relative to general purpose processors), more power efficient, radiation-hardened microprocesso ...

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5. AF141-099: Power Aware GPS User Equipment

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Specific to a ground-based military GPS receiver, develop a power management strategy which is implemented with an intelligent embedded software monitor/control application to balance power consumption against receiver performance. DESCRIPTION: Modernized military Global Positioning System (GPS) receivers continue to improve in capability, but the demand for increased battery li ...

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6. AF141-100: Secure Time delivery Military GPS receivers in challenged RF environments using existing wireless infrasructure

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an accurate and secure GPS time-aiding service that considers the time uncertainty from universal time (UTC) of existing commercial and tactical wireless infrastructure. DESCRIPTION: There are several methods to obtain time through commercial and tactical communication infrastructures; however, the level of trust and accuracy of these mechanisms limit their usefulness f ...

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7. AF141-101: Multi-Processor Array for Multi-Parametric Sensing in Cubesat DoD (or Air Force) Space Missions

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a compact multi-processor system to support observation-based Cubesat payloads including single sensor and/or multi-sensor capability. DESCRIPTION: CubeSats, small modular satellite platforms that range from 1U to 3U size, are becoming highly regarded by both commercial and military organizations that are exploring their use for various applications from surveillance to ...

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8. AF141-102: M-code External Augmentation system

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Working within the signal definition of IS-GPS-250A, conduct a trade study on suitable EAS signal modulations that are spectrally compatible with M-Code and BFEA and have minimum impact on conventional receiver signal processing techniques. DESCRIPTION: IS-GPS-250A (1) is an interface specification for an External Augmentation System, also known as a pseudolite (2), that provide ...

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9. AF141-105: Algorithms for IR data

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop data-processing methods and algorithms to exploit novel target signatures for insertion into ground- based processing software and real-time spacecraft data-processing firmware. DESCRIPTION: Short-wave infrared (SWIR) surveillance scanning and staring systems have several missions, including missile warning, missile defense, battlespace awareness, technical intelligence, ...

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10. AF141-106: Innovative Technologies for Operationally Responsive Space

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop technologies for spacecraft/space lift that provide game-changing"responsiveness"(ability to implement the same missions much faster and lower cost with adequate reliability and comparable capability thresholds/environmental constraints). DESCRIPTION: The DoD is actively pursuing the capability to create and field a space mission within days (even hours) of a battlefield ...

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