
THOMAS CLARK

Address: XXXXXXXXXXXXXXXXXXXX

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~ PROFILE ~

Visionary, goal-oriented, and seasoned military veteran seeking career advancement into civil or government positions to utilize more than 17 qualified years of extensive experience in planning, developing, and integrating emerging technologies. Continuously seeks innovative ways to deliver revolutionary capabilities and improve operational efficiency through introduction of new technologies, systems, methods, and controls. Known for spearheading major initiatives and adapting to rapidly changing environments to ensure bottom-line success.

- Highly noted for the ability to research, develop, test, and implement new and emerging technologies.
- Demonstrated versatility, strong leadership, and teamwork abilities; dependable and resourceful with solid aptitude to lead and manage diverse teams and organizations.
- Exceptional ability to quickly grasp and understand new and complex concepts coupled with excellent skills in completing challenging tasks with little guidance and supervision.
- Outstanding communications skills and demonstrated ability to clearly articulate complex, technical concepts to any audience.
- Holds current Top Secret-SCI Security Clearance and Counterintelligence Polygraph.

KEY SKILLS:

- | | |
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| <ul style="list-style-type: none">▪ Space Operations▪ Space System Design▪ Technology Development | <ul style="list-style-type: none">▪ Systems Engineering▪ Nuclear Physics▪ Strategic Planning and Growth |
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PROFESSIONAL EXPERIENCE

NATIONAL SECURITY SPACE INSTITUTE ■ COLORADO SPRINGS, CO

CHIEF OF ADVANCED COURSES BRANCH

2008-PRESENT

Lead the Advanced Courses Branch of the National Security Space Institute with responsibility for managing all advanced education courses, directing course development, and supervising course execution. Monitor performance and coordinate a team of 15 course developers and instructors. Present instruction on various advanced subjects including Nuclear Physics, Nuclear Weapons, Orbital Mechanics, Space Situational Awareness, Space Environment, Launch and Reentry, Rocket Propulsion, Space Systems Engineering, along with Spacecraft Systems and Payloads. Develop and lead exercises, which integrate space-based capabilities into military operations.

- Educated more than 500 space professionals in all areas of space operations.
- Redesigned the Satellite Communications Advanced Course to support and adhere to Army and Air Force requirements.
- Designed, developed, and established a Space Control Advanced Course to meet critical Army and Air Force needs.
- Streamlined branch interface with Air Force Space Command in order to impart accurate subject matter expertise into all advanced courses, significantly improving the quality of education.
- Resolved critical shortfalls in Air Force Nuclear Weapon security and surety by developing Air Force Nuclear Weapons Professional Education concept.

DIRECTORATE OF COMBAT DEVELOPMENT, SPACE & MISSILE DEFENSE COMMAND ■ COLORADO SPRINGS, CO

CHIEF OF TACTICAL SPACE TEAM

2006-2008

Led the team of U.S. Army Space and Missile Defense Command's subject matter experts in the tactical implementation of space capabilities. Held responsible for training all deploying Army and Air Force tactical space personnel, developing new space tactics and procedures, and assessing the effectiveness of tactical space operations. Developed, analyzed, and articulated Army requirements within the Joint Capabilities Integration and Development System (JCIDS) process to support development of emerging space systems.

- Hand-selected as part of a crisis-action team to serve as a Senior Plans Officer within Joint Functional Component Command-Network Warfare, responsible for planning, coordinating, and supervising the

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execution of computer network operations; directed multiple operational planning teams consisting of Army , Air Force, Navy, NSA, CIA, FBI, and State Department personnel that coordinated intelligence collection, developed detailed targeting information, deconflicted operations, and executed multiple operations with significant impacts on U.S. adversaries.

- Designed, developed, and supervised the Tactical Space Operations Course, a premier space training course that facilitates deployment of space operations personnel by training them in performing complex jobs in a combat environment.
- Authored the Army requirements portion of the Capabilities Development Document for the Space Radar System – influenced critical system design parameters.
- Identified and articulated Army requirements for the Transformational Satellite System (TSAT), Space-Based Infrared System (SBIRS), and GPS III System.
- Supported the development of new Army capabilities, including space control systems, communications systems, and GPS user equipment by working extensively within the JCIDS process.
- Instrumental in developing space concepts and doctrine in support of Army tactical forces.
- Authored the capstone document “Future Evolution of Army Space Forces”, used as the blueprint for the design of Army space force structure.
- Authored and staffed the space operations section of the 2007 and 2008 Army Modernization Plans (AMPs).

III U.S. ARMORED CORPS ■ FORT HOOD, TX

SPACE OPERATIONS OFFICER

2004-2006

Served as the sole space operations planner on the III Corps staff; senior advisor to the corps commander for all space-related issues and space planner for all corps operations. Held responsible for all aspects of space support within III U.S. Armored Corps. Delivered space capabilities, products, services, and expertise in support of both military and civil operations. Provided space force enhancement, space-based reconnaissance coordination, space control capabilities, blue-force tracking expertise, and battlefield analysis and characterization. Integrated space capabilities into corps plans and operations.

- Served as the Senior Space Operations Officer in Iraq during deployment in support of Operation Iraqi Freedom, responsible for coordinating space support across the Iraq Theater of Operations.
- Led the Special Technical Operations cell that successfully planned and integrated classified, special purpose technologies into combat operations.
- Introduced and established the first joint, interagency space cell in Iraq which provided continuous space support to all civil and military operations.
- Rapidly developed and implemented contingency plans to provide specialized space-based ISR products, which filled critical intelligence gaps for the Commander and staff and contributed to successful mission accomplishment in support of combat operations in Iraq in 2004 and 2005.
- Worked closely with NRO and NGA experts to create and implement four revolutionary techniques to employ space-based capabilities that enhanced targeting, combat operations, battle damage assessment, base and site security, and civil reconstruction.

NATIONAL RECONNAISSANCE OFFICE ■ CHANTILLY, VA

CHIEF OF RESEARCH & DEVELOPMENT, SPECIAL TECHNOLOGY GROUP

2001-2004

Led and directed a team responsible for technology development for multiple classified space programs of critical importance to national security. Designed and developed space systems and mission profiles to meet emerging sensitive mission requirements.

- Supervised a team of 10 scientists and engineers assigned to develop revolutionary technologies to meet critical national space priorities.
- Conducted a \$35 million / year research and development program that directly led to the development of multiple new technologies that enabled revolutionary capabilities for the National Security Space Community.

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- Examined vulnerabilities of current and future U.S. space systems including space and ground segments; conducted risk assessments for on-orbit assets; developed risk mitigation options for the Under Secretary of the Air Force to ensure continued protection of a classified space system.
- Developed and implemented a continuity of operations plan for a command and control facility responsible for a critical, highly classified intelligence community space-based asset immediately following September 11, 2001.
- Delivered more than 40 designs, tactics, and policy recommendations for selected Secretary of Defense and Director of Central Intelligence programs necessary to satisfy the highest national priority intelligence, surveillance, and reconnaissance requirements.

UNITED STATES MILITARY ACADEMY-DEPARTMENT OF PHYSICS ■ WEST POINT, NY

ASSISTANT PROFESSOR

1998-2001

Served as instructor and course director of calculus-based college physics courses. Planned and presented instruction for multiple subjects including Classical Mechanics, Electricity and Magnetism, Modern Physics, and Nuclear Reactor Theory. Designed lesson content, presented lesson material, and assessed student performance. Conducted research in the area of high-energy astrophysics.

- Taught physics to more than 600 West Point cadets.
- Served as Course Director for Nuclear Reactor Theory as part of the Nuclear Engineering course sequence; restructured Nuclear Reactor Theory to make it more relevant and academically rigorous.
- Reinvigorated, re-equipped, and supervised the West Point Observatory; produced a functional electro-optical observing suite for astronomical research.
- Published 4 peer-reviewed papers in the field of high-energy astrophysics.

EARLIER CAREER

Company Commander, B Company 1-33 Armor ■ Fort Lewis, WA

1994-1996

Platoon Leader/ Executive Officer, B Company 3-68 Armor ■ Fort Carson, CO

1991-1994

EDUCATION

Master of Science in Physics

Massachusetts Institute of Technology ■ Cambridge, MA: 1998

Bachelor of Science in Engineering Physics

United States Military Academy ■ West Point, NY: 1990

MILITARY AWARDS AND HONORS

Defense Meritorious Service Medal ■ Meritorious Service Medal (3) ■ Joint Commendation Medal
Army Commendation Medal (2) ■ Joint Service Achievement Medal ■ Army Achievement Medal (2)
National Reconnaissance Office (NRO) AS&T Field Grade Officer of the Year (2003 and 2002)
National Reconnaissance Office (NRO) Bronze Medal

TRAINING

Lean Six Sigma Yellow Belt (2009)
Space 300 (2006)
Command and General Staff College (2002)
Space Operations Officer Qualification Course (2001)