

# CHARLES “C.B.” CAIN

ASSOCIATE, DAYTON AEROSPACE, INC.

## PROFILE

Over 20 years as a US Air Force (USAF) executive with operational, flight test, and leadership experience. Combat-proven C-17 instructor and evaluator pilot experimental test pilot. Over 2,300 flight hours in more than 25 different aircraft. Led multiple developmental test programs in the C-17A, C-130H, C-130J, and C-12. Oversaw testing of weapons and ejection seats, radar, directed energy, counter unmanned aircraft systems (UAS), and inertial and guidance systems to include global positioning system (GPS) and GPS jamming, survivability, as well as wheels, brakes, and landing gear systems. Served at the Pentagon on the Air Staff supporting USAF requirements and the Joint Staff at the National Military Command Center (NMCC). Colonel, USAF (Retired).

## PRINCIPAL AREAS OF EXPERTISE

Leadership	Defense Strategy
Flight Test Engineering	Defense Acquisition
Strategic Decision Making	Aeronautical Engineering

## WORK HISTORY

Associate | Dayton Aerospace, Inc.

2020-present, Dayton, OH

Supports government and industry customers in a wide range of tasks including strategy development, strategic planning, cognitive models and agents, network and integrated training, mission rehearsal for manned and UAS vehicles, automated mission planning, and personnel organization, training, and equipment functions.

Vice Commander | Air Force Life Cycle Management Center (AFLCMC)

2020-2022, Wright-Patterson Air Force Base (WPAFB), OH

Provided support for the organization, training, and equipment functions of the center to include holistic management of weapon systems across their life cycle with the support of staff and functional offices. Simplified and consolidated staff functions and processes to curtail redundancy and enhance efficiency. With 28K personnel across nine major operating centers, oversaw a \$304B operating budget to deliver everything from uniforms and ejection seats to aircraft and missiles. Specifically, AFLCMC's portfolio includes divisions for presidential and executive aircraft; mobility and training aircraft; bomber aircraft; fighter and advanced aircraft; information technology (IT) systems; command, control, communications, and networks (C3N); intelligence, surveillance, and reconnaissance (ISR) systems; armaments; business and enterprise systems (BES) and various specialized or supporting systems such as simulators and personal equipment. AFLCMC also executes foreign military sales (FMS) of aircraft and other defense related equipment while building security assistance relationships with foreign partner nation air forces.

Commander | 704th Test Group, Arnold Engineering Development Complex (AEDC)

2018-2020, Holloman AFB, NM

Provided oversight of the test group's mission to operate world-class test facilities for high-speed sled track testing, navigation and guidance system testing, radar signature measurements, weapon systems flight testing, and acted as Air Force Liaison for all USAF programs tested. Additionally, provided oversight of two geographically separated units: Operating Location (OL)-AA, located at Kirtland AFB, NM, which is responsible for directed energy and high energy laser testing and OL-AC, located at WPAFB which performs landing-gear and aircraft survivability tests.



## DAYTON AEROSPACE

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## EDUCATION

MS, Aeronautical Engineering

University of Washington

MS, Strategic Studies

Army War College

MS, Flight Test Engineering

USAF Test Pilot School

BS, Aeronautical Engineering

US Air Force Academy (USAFA)

## CERTIFICATIONS

Defense Acquisition Professional Development Program

Test & Evaluation, Level III

Program Management, Level I

Systems Engineering, Level I

Federal Aviation Administration (FAA)

Certified Commercial Instructor Pilot - Airplane, Instrument, Multi-engine, Land

Certified Remote Pilot (Part 107, Commercial)

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## WORK HISTORY (CONT'D)

### Chief | Warfighter Readiness Research Division, Air Force Research Laboratory (AFRL/RHA)

2017-2018, *WPAFB, OH*

As chief of the RHA, conducted training research to create and validate methods, models, and technologies for learning and persistent readiness in and across USAF missions. Provided oversight of the departments responsible for conducting training research to provide affordable, adaptive, and open solutions for personalized, persistent training. Responsible for department branches including Cognitive Models and Agents (RHAC), Continuous Learning (RHAS), and Warfighter Readiness Research Operations Support (RHAO).

### Assistant Deputy Director for Operations | J-33, The Joint Staff

2014-2016, *Pentagon, Washington, D.C.*

Served as principal assistant and advisor to the Joint Staff J-3 Deputy Director for Operations for Emergency Actions within the National Military Command Center (NMCC). Coordinated with the Presidential Emergency Operations Center (PEOC), federal agencies, and Combatant Commands (COCOMS) to enable crisis decision making. Oversaw joint emergency actions and communications teams implementing presidential directives.

### Commander | 418th Flight Test Squadron

#### Director | Global Reach Combined Test Force

2012-2014, *Edwards Air Force Base, CA*

Led the Global Reach Combined Test Force, a 300-person team of military, civilian, and contractor personnel, executing worldwide flight test programs on experimental systems and highly modified C-5, C-17, C-130, KC-10, KC-46, and KC-135 aircraft and parachute/airdrop systems.

### Director of Operations | 418th Flight Test Squadron

2011-2012, *Edwards AFB, CA*

Directed all flight operations Global Reach Combined Test Force, overseeing 900 annual test and training flight hours. Oversaw all training and standardization for eight test parachutists and 85 aircrew on C-5, C-17, C-130, and KC-135 aircraft. Conceived, planned, and executed airlift and tanker aircraft flight test programs to meet DoD, USAF, Army, USMC, SOCOM and National Aeronautics and Space Administration (NASA) requirements. Commanded elevated-risk flight test missions evaluating developmental C-130 and C-17 aircraft upgrades, mission systems, and unique airdrop configurations.

### C-17 and C-130 Test Pilot | 418th Flight Test Squadron

2009-2011, *Edwards AFB, CA*

Commanded elevated-risk flight test missions to evaluate developmental C-130 and C-17, aircraft upgrades, and mission systems. Conceived, planned, executed flight tests to meet DoD, USAF, Army, USMC, SOCOM, and NASA requirements.

### Student | USAF Test Pilot School

2008-2009, *Edwards AFB, CA*

Flew over 137 demanding flight test training hours in more than 27 different DoD and foreign military/civil aircraft, including the C-12, T-38A/C, F-16, A-10, AN-2, HU-16, P-180, MiG-15, LJ-25, KC-135, T-43, T-6, F-15D/E and gliders. Conducted real-world capstone test program to investigate and evaluate the polarized infrared advanced tactical experiments (PIRATES) ability to polarimetrically detect airborne targets from an airborne platform.

### Deputy | Intratheater Airlift and Tanker Requirements Branches, Air Staff (A5RM)

2007-2008, *Pentagon, Washington, DC*

Directed capability requirements development for the full spectrum of intra-theater airlift and air refueling mission areas. Integrated warfighter needs with program and resource allocation for a \$30B portfolio of C-130, KC-135, KC-10 and KC-46 programs. Advised and supported senior USAF leaders in executing the DoD joint capabilities integration and development process. Crafted official positions and advocated for USAF service position within Office of the Secretary of Defense (OSD) and congressional deliberations.

### Prior to 2007

- Air Force Intern Program, DoD, *Washington, DC*
- C-17A Aircraft Commander, 16<sup>th</sup> Airlift Squadron, 437<sup>th</sup> Airlift Wing
- Student, Undergraduate Pilot Training, 14<sup>th</sup> Flying Training Wing

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