



BIOGRAPHY



UNITED STATES AIR FORCE

COLONEL JOSHUA D. RASMUSSEN

Colonel Joshua D. Rasmussen is the Military Deputy, Integrated Capabilities Directorate, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio. He leads a diverse team of scientists, engineers, and technologists across seven divisions, contains a portfolio of the Lab's most advanced, cross-cutting and transformative capability development efforts that enable the United States to deter and, if necessary, defeat a peer adversary. Additionally, Colonel Rasmussen is the Technology Maneuver Task Force Director, responsible for developing AFRL's strategy and implementation plan to posture and prepare the Department of the Air Force's technologists for rapidly changing conflict with a technologically advanced adversary.

Colonel Rasmussen is a 2003 graduate of the Air Force Reserve Officer Training Corps, University of North Dakota, and has served across the acquisition enterprise in engineering, program management, test and evaluation (T&E), international security cooperation, and future-force design. He began his career managing space surveillance technology development then led C-130 avionics modernization production engineering. He served as an exchange officer in the United Kingdom's Royal Air Force supporting T&E of their airborne intelligence, surveillance, and reconnaissance (ISR) systems. He then performed precision-guided munitions T&E for Air Combat Command and went on to serve in both the Secretary and Headquarters Air Force staffs where he coordinated airborne ISR acquisition and synchronized Air Force Futures' future-force design and Command & Control requirements. As Commander of Big Safari's Detachment 1, he led rapid acquisition and support of high-demand, low-density aircraft fleets for customers who required extraordinary combat-effective solutions. Additionally, Colonel Rasmussen deployed to Afghanistan in 2013, and to the U.S. Embassy-Amman, Jordan, in 2018.



EDUCATION

2003 Bachelor of Science in Electrical Engineering, University of North Dakota, ND
2008 Master of Science in Electrical Engineering/Electro-Optics, Air Force Institute of Technology, Wright-Patterson AFB, OH
2008 Squadron Officer School, Maxwell AFB, AL
2016 U.S. Army Command and General Staff College, Fort Leavenworth, KS
2021 Certified Professional Innovator, College of Engineering, University of Michigan

ASSIGNMENTS OR CAREER CHRONOLOGY

1. June 2003 – June 2004, Project Engineer, Detachment 15, Air Force Research Laboratory, Maui, HI
2. June 2004 – June 2006, Program Manager, Detachment 15, Air Force Research Laboratory, Maui, HI
3. August 2006 – March 2008, Student, Air Force Institute of Technology, Wright-Patterson AFB, OH
4. March 2008 – June 2009, C-130 Avionics Modernization Program Production Engineering Lead, 516th Aeronautical Systems Wg, Wright-Patterson AFB, OH
5. June 2009 – June 2010, Executive Officer, 516th Aeronautical Systems Wg, Wright-Patterson AFB, OH





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6. June 2010 – July 2012, Exchange Officer (Electro-Optics Instructor) to the Royal Air Force, Air Warfare Center, RAF Cranwell, United Kingdom
7. July 2012 – March 2013, Munitions Engineer, 86th Fighter Weapons Squadron, 53d Wg, Eglin AFB, FL
8. March 2013 – June 2015, Flight Commander, 86th Fighter Weapons Squadron, 53d Wg, Eglin AFB, FL
9. June 2015 – July 2016, Student, Army Command and General Staff College, Fort Leavenworth, KS
10. July 2016 – July 2018, Program Element Monitor, NATO Alliance Ground Surveillance, SAF/AQI, Pentagon, Washington D.C.
11. June 2018 – July 2019, Deputy Chief, Airborne Intelligence, Surveillance, and Reconnaissance Division, SAF/AQI, Pentagon, Washington D.C.
12. August 2019 – April 2021, Branch Chief, Cross-Function Team Integration and Joint All-Domain Command and Control Engineer, HAF A5/7 (Air Force Futures), Pentagon, Washington D.C.
13. April 2021 – June 2023, Commander, Detachment 1, 645th Aeronautical Systems Squadron, Waco, TX
14. July 2023 – July 2024, Deputy Commander, 75th Mission Support Group, Hill AFB, UT
15. July 2024 – Present, Military Deputy, Integrated Capabilities Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH

MAJOR AWARDS AND DECORATIONS

Defense Meritorious Service Medal
Meritorious Service Medal with six oak leaf clusters
Joint Service Commendation Medal
Air Force Achievement Medal

OTHER ACHIEVEMENTS

2003 Distinguished Graduate, USAF ROTC, Detachment 610, University of North Dakota
2005 Led Air Force Research Laboratory's Technology Transfer Team of the Year
2008 Armed Forces C4I Research Excellence Award, Air Force Institute of Technology
2008 Top Third Graduate, Squadron Officer School
2016 Distinguished Graduate equivalent, U.S. Army Command and General Staff College
2021 Senior Military Engineer of the Year, Air Force Life Cycle Management Center

PROFESSIONAL CERTIFICATIONS

Level III APDP: Engineering
Level III APDP: Program Management
Level II APDP: Test & Evaluation

EFFECTIVE DATES OF PROMOTION

First Lieutenant: May 28, 2005
Captain: May 28, 2007
Major: October 1, 2013
Lieutenant Colonel: June 1, 2018
Colonel: November 1, 2024

(Current as of February 2025)

