Brandon Russell

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brandonrussell.io

Educator and cybersecurity practitioner with a Doctor of Education, CCAF Master Instructor certification, and 3,000+ hours of classroom instruction in cybersecurity, communications, and aviation systems. CISSP, OSCP, and TS/SCI credentials plus 25+ years of operational experience support faculty contribution in cybersecurity and aviation programs.

CERTIFICATIONS

- **TS/SCI Clearance**
- OffSec Certified Professional (OSCP)
- OffSec Wireless Professional (OSWP)
- Certified Information Systems Security Professional (CISSP)
- CompTIA Security+ ce Certification
- Project Management Professional (PMP)
- Certified Master Instructor
- Linear Algebra I & II Certificate: Linear Equations & Matrix Algebra
- Part 107 Small Unmanned Aircraft Systems License
- Professional Manager Certification

SKILLS

- Curriculum Design & Development
- Course & Assessment Design
- Faculty Mentorship
- Technical Instruction
- Outcomes-Based Learning
- Cybersecurity Operations & Strategy
- Penetration Testing & Red Teaming
- Software Development & Coding
- Database Design & SQL
- AI Security & Offensive AI

EDUCATION

- Doctor of Education (ED.D) in Educational Leadership, 4.0 GPA — Aug 2022
  - Liberty University, Lynchburg, VA, US
- Master of Science (M.S.) in Information Technology, 4.0 GPA — May 2019
  - University of Maryland Global Campus, Adelphi, MD, US
- Bachelor of Science (B.S.) in Computer Studies, 3.8 GPA — Jun 2010
  - University of Maryland Global Campus, Adelphi, MD, US

PUBLICATIONS

- Russell, B. R. (forthcoming, 2026). Beyond access: Reimagining air mobility, basing, and endurance in the Indo-Pacific theater. *Joint Force Quarterly*, 121.
- Russell, B. R. (2025, Spring). Building a password cracker using OpenAI and Rust. *2600: The Hacker Quarterly*.
- Russell, B. R. (2023). The United States Air Force pilot diversity dilemma. *Equality, Diversity and Inclusion: An International Journal*, 42(7), 848-871. https://doi.org/10.1108/edi-10-2022-0297
- Russell, B. R. (2023). *From wrenches to pens* [self-published].
- Russell, B. R. (2022). *The other airman* [self-published].

PROFESSIONAL EXPERIENCE

TEACHING & CURRICULUM

- Delivered 3,000 hours of advanced classroom instruction in cybersecurity, communications, and aviation electrical systems, raising operational proficiency across U.S. Air Force wings and joint cyber forces.
- Supervised 21 instructors, reviewed 153 courses covering 3,000 learning objectives, and mentored faculty in lesson design and assessment - graduating 1,398 students.

CYBERSECURITY & LEADERSHIP

- Commanded 103 personnel and directed C2 of 10K cyber forces for 638K joint warfighters; integrated kinetic and non-kinetic capabilities for unified global effects.
- Led a 51-person joint AF/Navy team managing a $54M cyber weapon system, 80 Defense Information System Network circuits, 120 servers, a $9.5M radio network, and a $1.2M loudspeaker system.

CYBER EFFECTS

- Led cyber operations countering a supply chain hack, hardening 289 servers across 81 missions and blunting nation-state adversaries.
- Conducted cyber surveillance for NORAD and Operation Noble Eagle, protecting the 2020 elections - the top priority of the USCYBERCOM commander.

SOFTWARE DEVELOPMENT

- Built a SharePoint solution across 58 Air Force units, enabling 1,000 personnel to execute 670 events nationwide and saving $500K in development costs.
- Developed database systems for aircraft operations, handling 10K sorties and $29M in assets with SQL backends supporting trend analysis and continuity.

AVIATION SYSTEMS

- Spent over a decade as an aviation mechanic on the C-5, C-17, and E-8C airframes, supporting 4,488 missions worldwide.
- Developed deep expertise across jet engines, electrical power, bleed air, environmental control, fire warning, and emergency oxygen systems - methodically isolating faults from schematics and technical orders to return aircraft to flight.

WORK HISTORY

United States Air Force

- Cyber Master Instructor / Acting Director of Operations — Biloxi, MS | 2024 - Present
- Recruiting Program Manager — San Antonio, TX | 2021 - 2024
- Senior Duty Officer, Cyber Operations — San Antonio, TX | 2020 - 2021
- Flight Commander, Cyber Operations — Charleston, SC | 2017 - 2020
- Supervisor & Master Instructor — Warner Robins, GA | 2011 - 2016
- Aircraft Electrical Tech, DB Developer, IA Officer — Spain & Azores | 2001 - 2011