



**Faculty Vitae**  
United States Naval Academy

1. Dane Brown
2. Education
  - a. Ph.D. *Computer Engineering*, Virginia Polytechnic Institute and State University, Blacksburg, VA, 2019
  - b. M.S. *Computer Engineering*, Naval Postgraduate School, Monterey, CA, 2006
  - c. B.S. *Electrical Engineering*, United States Naval Academy, Annapolis, MD, 2005
3. Academic experience
  - a. Assistant Professor, United States Naval Academy, Cyber Science Department, 2019-Present
  - b. Professor of Practice, United States Naval Academy, Cyber Science Department, 2014-2019
  - c. Research Assistant, Virginia Polytechnic Institute and State University, Falls Church, VA, 2014-2018
  - d. Professor of Practice, United States Naval Academy, Electrical and Computer Engineering Department, 2012-2014
  - e. Senior Instructor, United States Naval Academy, Electrical and Computer Engineering Department, 2010-2012
4. Non-academic experience
  - a. Chief, Defensive Cyber Operations, Joint Cyber Center, United States Central Command, 2015-2016
  - b. Executive Officer, J5- Strategy, Plans, and Policy, Joint Cyber Center, United States Central Command, 2015
  - c. Division Officer, Improved Los Angeles Class Submarine, USS BOISE (SSN-764), 2007-2010
5. Certifications or professional registrations
  - a. GIAC Certified Intrusion Analyst (GCIA), 2014
  - b. GIAC Security Essentials Certification (GSEC), 2012
  - c. IACRB Certified Expert Penetration Tester, 2012
  - d. IACRB Certified Penetration Tester, 2012
  - e. EC-Council Certified Ethical Hacker, 2012
6. Current membership in professional organizations
  - a. National Society of Black Engineers
7. Honors and awards
  - a. Modern Day Technology Leader, Black Engineer of the Year Awards, 2012

8. Service activities
  - a. Chair, Cyber Science Department Curriculum Committee (2019-Present)
  - b. Cyber Science Department Philosophy Committee (2017-2018)
  - c. Faculty Representative, Cyber Security Team (2016-Present)
  - d. Cyber Science Department Curriculum Committee (2016-Present)
  - e. Cyber Science Department Systems Committee (2016-2017)
  - f. Computer Engineering Search Committee (2012 – Present)
  - g. Radiation Safety Officer (2011-2012)
  - h. Engineering Division Watch Officer (2010-2012)
9. Briefly list the most important publications and presentations from the past five years
  - a. “Return-Oriented Programming on a Cortex-M Processor”, 14th IEEE International Conference On Embedded Software and Systems, August 2017
  - b. “How Much Privacy Does \$3,165 Buy You: A Critical Look At Private OUI Registration”, 15th International Conference on Privacy, Security, and Trust, August 2017
  - c. “A Study of MAC Address Randomization in Mobile Devices and When it Fails”, Privacy Enhancing Technologies Symposium, July 2017
  - d. “Inferring File System of Solid State Drives Based on Power Consumption”, IEEE 7th Annual International Conference on CYBER Technology in Automation, Control, and Intelligent Systems, July 2017
10. Briefly list the most recent professional development activities
  - a. Cyber Security Keynote, Great American Custom Insurance Services, August 2017
  - b. Led presentation on Wi-Fi Vulnerabilities for the Wireless @ Virginia Tech Conference, May 2014