

Joel C. Nonnweiler

Professional Profile An experienced professional leader in communications, cyberspace operations, and computer science with over twenty-five years in the U.S. Air Force; serving multiple assignments in Europe including combat zones in the Horn of Africa and Afghanistan. Currently assigned as the U.S. Pacific Command's Command, Control, Communications, and Cyber (C4) Resource Manager; planning, and executing a \$14 million annual budget supporting cyberspace operations, theater integration and interoperability, and headquarters information technology provisioning. Previous experience includes: Branch Chief for theater Defensive Cyber Operations, Advisor to the Afghanistan Air Forces Training Center, Assistant Professor and Commandant of Cadets at the University of Connecticut, Deputy Communications Squadron Commander, and a Major Command Information Systems Integration Manager. Academic experience includes software engineering, programming, database design, and information protection with professional certifications in Project Management and Financial Management. Earned A.A., B.S., and M.S. degrees in Computer Science.

Objective Selection for a permanent faculty position as an instructor within the Business Administration or Applied Science Program; Information Technology or Information Security & Assurance at the University of Hawaii – West Oahu. Transform my twenty-five years of information systems, communications, cyber, project management, budget, and academic experience into teaching and mentoring for students interested in careers in business, information technology, and information security.

Education

M.S. in Computer Systems; Software Engineering
Air University, Air Force Institute of Technology, Wright-Patterson Air Force Base, OH. 2001
— *Software Engineering* — *Automata and Formal Language Theory*
— *Design and Analysis of Algorithms* — *Artificial Intelligence*
— *Database Systems, Structures, Implementation* — *Java*

M.S. in Military Operational Art and Science
Air University, Air Command and Staff College, Maxwell Air Force Base, AL. 2011
— *Air, Space, and Cyberspace Power Studies*
— *Joint Air and Space Operations & Planning*
— *International Security Studies*

B.S. in Computer Science, (Cum Laude)
University of Nebraska at Omaha (UNO), Omaha, NE. 1997
— *Programming Languages* — *Operating Systems*
— *Computer Architecture* — *Data Structures*
— *Discrete Math / Linear Algebra / Calculus* — *COBOL, C++*

A.A. in Computer Studies
University of Maryland University, College Park, MD. 1994
— *Computer Hardware & Software* — *Trigonometry / Analytical Geometry*
— *Networking & Communications* — *Pascal*

A.A. in Information Systems Management

Community College of the Air Force, Gunter Air Force Base, AL. 1994
— *Computer Operations* — *Information Security / Management*
— *Hollerith Code / Job Control Language / Assembly / Ada Programming*

Joint Professional Military Education

National Defense University, Joint Forces Staff College, Norfolk, VA. 2012
— *Principles, Tenets, and Capabilities of Air, Space, and Cyberspace*
— *Theater Strategy & Joint Principles for Command and Control Structures*
— *Interagency, "Whole of Government", and Multinational Operations and Planning*

United States Air Force Basic and Advanced Communications Officer Training

Air University, Keesler Air Force Base, MS. 1998 (Basic) & 2007 (Advanced)
— *Air Force Garrison and Expeditionary Communication & Information Systems*
— *Communication Networks and Telecommunications Principles*

Key Skills — Software Engineering — Fundamentals of Computer Science
— Cyberspace Operations — Cyber Security & Information Assurance
— Academic & Education Development — Teaching / Training / Advising / Mentoring
— Project Management — International and Multicultural Relations
— Budget, Financial, and Contract Management

Experience Highlights **United States Air Force**, 1988 – Present: Current Position; C4 Resource Management Headquarters, U.S. Pacific Command, Camp Smith, Hawaii
Military Specialties: Cyberspace Operations & Planning, Leadership & Education Development, Project Management, Information Systems Management, Information Systems Architecture and Integration Management, and Programming & Computer Operations
Overseas and Combat Deployment Assignments include: Germany, United Kingdom, Djibouti, and Afghanistan

Courses Taught Aerospace Studies 300 – Principles of Air Force Leadership
Aerospace Studies 110, 210, 310, and 410 – Leadership Laboratory, Practicum
Air Force Reserve Officer Training Corps – Summer Field Training Camp

Certifications & Affiliations [Redacted]
Project Manager Professional (PMP), 2014
Certified Defense Financial Manager (CDFM), 2014
Certified Information Systems Security Professional (CISSP), 2015
Armed Forces Communications & Electronics Association (AFCEA), 2005
American Society of Military Comptrollers (ASMC), 2014
Project Management Institute (PMI), Honolulu Hawaii Chapter, 2014

Professional Publications Software Domain Model Integration Methodology for Formal Specifications. Nonnweiler, J., MS thesis, Air Force Institute of Technology, Wright-Patterson Air Force Base, OH, March 1999. AFIT/GCS/ENG/01M-07

"Software System Integration Methodology using Formal Specifications", Hartrum & Nonnweiler, Proceedings of the 44th IEEE 2001 Midwest Symposium on Circuits and Systems (MWSCAS 2001), Dayton, OH, August 14-17, 2001

Recognition & Awards **Military Medals:**
Meritorious Service Medal, Joint Service Commendation Medal Air Force Commendation Medal, Air Force Achievement Medal, National Defense Service Medal, Global War on Terrorism Service Medal

Team Awards (While Flight Commander at Royal Air Force Base Croughton, United Kingdom):
 Communications and Information Work Center of the Year, 2006
 Standardized Tactical Entry Point Satellite Transmission Site of the Year, 2005
 Defense Switch Network Site of the Year, 2005
 Technical Control Facility of the Year, 2005

Individual Awards and Recognition:

Communications and Information Company Grade Officer of the Year, 2003
 Communications Professional of the Year, Company Grade, 2001
 Communications and Information Professional Award, 1998
 Honor Award, Armed Forces Communications & Electronics Association, 1998
 Golden Key National Honor Society, University of Nebraska, 1997
 AFROTC Distinguished Graduate, University of Nebraska, Det 470, 1997
 Honor Graduate, Apprentice Communications-Computer Systems Programming, 1994

**Community
 Service**

2nd and 8th Grade Religious Education Classes (2002 – Present)
 Retreat Coordinator and Presenter (2012 – Present)
 Member of Community Choir (2011 – Present)
 Advisor, Company Grade Officer Council (2005 – 2007)
 Assistant Boy Scout Master (1996 – 2007)
 Boy Scout Merit Badge Counselor; orienteering, map reading, first aid, and others (1996 – 2007)

Experience

(2013 – Present) C4 Resource Manager, develops and executes a \$14 million fiscal year budget in support of U.S. Pacific Command's C4 Directorate via a prioritized spend plan. Captures and reports the headquarters' five year C4 budget plan to the U.S. Navy for inclusion into the President's Budget. Performs extensive coordination with the Command's business operations, comptroller, and contracting agency to conduct procurements and contract for services, labor, and equipment; ensuring compliance with all legal and regulatory requirements. Responsible for the C4 Directorate's internal control program, ensuring that critical processes protecting sensitive and high value resources are properly audited, reported, and findings tracked to resolution.

(2011 – 2013) Chief, Defensive Cyber Operations (DCO) and Analysis Branch, developed U.S. Pacific Command's defensive cyber policy and theater cyber situational awareness during the implementation of the Department of Defense Joint Staff's mandated Joint Cyber Centers. U.S. Pacific Command was one of the first Geographic Combatant Commands to create the initial cyber operations and planning capability. Chaired the theater DCO working group, with membership from: Air Force, Navy, Army, and Marine Corps service components as well as various intelligence and law enforcement agencies. Conducted cyber threat, risk, and vulnerability analysis; resulting in the integration and synchronization of defensive cyber operations. In addition to providing network hardening recommendations to the U.S. Pacific Command C4 Director and U.S. Cyber Command, provided planning input into the theater campaign and operational plans. Led the Computer Network Defense team to monitor, detect & analyze, and protect theater networks, and the Information Assurance office to enforce information security for the Headquarters Pacific Command information and networks.

(2009 – 2010) Advisor: Afghan Air Corps, as part of the North Atlantic Treaty Organization (NATO) Training Mission, supervised a team of U.S. military and Afghan contractors building the Kabul Air Corps Training Center (KACTC) with the mission to build a cadre of rotary wing aircraft maintainers and fixed wing ground crew. Advised KACTC Education Director, with 70 staff & instructors, in the training of 1,200 students annually. Developed & incorporated literacy and professional military training programs into the curriculum; doubled the number of aircraft maintenance courses to 22 and student dormitory capacity to 700. Procured and managed three Afghan contracts, worth over \$17,000,000, to develop Afghan instructor staff, increase the curriculum, and improve facilities to include additional classrooms, dormitories, and parade grounds.

(2007 – 2009) Assistant Professor of Aerospace Studies, developed course curriculum and lesson plans teaching the practical application of leadership, management, and ethics. Taught University of Connecticut Air Force Reserve Officer Corps junior AFROTC cadets the essential disciplines of the profession of Air Force officer. As Commandant of Cadets, guided and advised a 50-person cadet wing, developing leadership skills while teaching the combined freshman, sophomore, junior, and senior Leadership Laboratory. Led 25-person Flight during a 6-week Summer Field Training Camp; taught deployment, expeditionary, hand-to-hand combat, and in-garrison skills and evaluated cadets' leadership potential. 2008 Veteran's Day Keynote speaker at the City of Columbia, CT and gave professional development presentation at the 2009 annual AFROTC Commandant of Cadet conference, attended by over 100 nation-wide detachments.

**Other
Experience**

(2004 – 2007) Deputy Communications Squadron Commander, RAF Croughton, United Kingdom
(2004, 4 months) Communications Operations Officer, Joint Task Force-Horn of Africa, Djibouti
(2001 – 2004) Computer Operations & Integration Management, U.S. Strategic Command, NE
(1999 – 2001) Student, Air Force Institute of Technology, Wright-Patterson Air Force Base, OH
(1998 – 1999) Satellite Communications Analyst, 50th Space Wing, Schriever Air Force Base, CO
(1995 – 1997) Computer Test-Bed Analyst (Internship), Mutual of Omaha, Omaha, NE
(1994 – 1995) System Performance Analysis, Air Force Global Weather, Offutt, NE
(1988 – 1994) Computer Operations & Training Manager, U.S. Air Forces in Europe, Germany