

Date: 6 March 2012

Institution: U.S. Naval Academy
Program: Systems Engineering

1. Name: John W. Nicholson, CAPT, USN

2. Education:

BS	Marine Engineering	U.S. Naval Academy	1981
Engineer	Ocean Engineering	MIT/WHOI Joint Program	1988
PhD	Mechanical Engineering	Naval Postgraduate School	2004

3. Academic experience:

U.S. Naval Academy (2004-Present). Captain USN / Assistant Professor / Permanent Military Professor / Weapons and Systems Engineering Department Associate Chair (2007-2012)

4. Non-academic experience:

Submarine officer 1981-2001. Commanded USS WYOMING (Gold Crew).

5. Professional registrations:

Professional Engineer, State of California, 2002

6. Professional organizations:

Association for Unmanned Vehicle Systems International
Marine Technology Society

7. Honors and awards

Tau Beta Pi
Sigma Xi
Phi Kappa Phi

8. Service activities

AUVSI AUV Competition Team Advisor (2005 - present)
Federal Task Force on Unmanned Systems (2011-present)
Intel International Science and Engineering Fair (ISEF) Judge (2008-present)
Marine Technology Society AUV Committee (2008-Present)
PEO IWS Project Fund Administrator (2006-present)
Tau Beta Pi Officer Representative, USNA chapter (2009 - present)
Associate Chair, Weapons and Systems Engineering Department (2007-2012)
Core Course Assessment Committee Chair (2012)
Prince Georges County Science Fair Judge (2009-2011)
BLUE DART Team Advisor (2009 - 2010)
Honor Remediator for several honor cases
Career Development Seminar Facilitator – several instances
USNA Admissions Board (2008-2009)
PMP Selection Board (2006, 2007)
PMP Continuation Board (2007)
General Court Martial Member (2007)
Marine Technology Society Scholarship Committee (2008-2011)
Naval Science Awards Program Judge (2007-2009)

Science consultant, Anne Arundel Public Schools (2007)

9. Principal publications of last five years:

J. Bradshaw and J.W. Nicholson, "The Inertial Navigation Unit: Teaching Navigation Principles using a Custom Designed Sensor package", *Computers in Education Journal* Vol XVIII No.2 April-June 2009, pp. 42-48.

J.W. Nicholson and A.J. Healey, "The Present State of Autonomous Underwater Vehicle (AUV) Applications and Technologies" *Marine Technology Society Journal* Vol 42, No 1, Spring 2008, pp. 44-51.

K. Kiriakidis, J. W. Nicholson, M. Hock, K. Lee, and E. N. Khoury, "Particle Filtering with Optimal Measurement Selection", *Proceedings of the Eighth International Conference on Mathematics in Signal Processing*, Cirencester, U.K., 17-19 December 2008, pp. 145-148.

J. Bradshaw and J.W. Nicholson, "The Inertial Navigation Unit: Teaching Navigation Principles using a Custom Designed Sensor package", *American Society for Engineering Education Conference*, Pittsburgh PA, 22-25 June 2008.

M. Feemster, J. Esposito, and J. W. Nicholson, "Manipulation of Large Objects by Swarms of Autonomous Marine Vehicles: Part I – Rotation", *Proceedings of the Thirty-Eighth IEEE Southeastern Symposium on System Theory*, Cookeville, TN, 5-7 March 2006, pp. 255-259.

Dobisesky, J.P., Nelson, M.E., Nicholson, J.W., Pisacane, V.L., "Comparison of Commercial Cosmic Ray Dose Equivalent Codes to Measured Radiation Exposure of Naval Aviators and Civilian Air Travelers", *54th Annual Health Physics Conference*, Minneapolis. Minnesota, July 16, 2009.

10. Professional development activities in the last five years:

Attended ONR AUV Technology Conference 2006-Present

Assistant Moderator, Integrating Unmanned Vehicles Session, ASNE Day, 2012

Presenter, NPS CRUSER Symposium "Robo-Ethics, Rhetoric or Reality", Pentagon, January 2012