CURRICULUM VITAE

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Mechanical Engineer
Research Engineer
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EDUCATION:

M.S.: Aeronautics and Astronautics, Purdue University, December 2009
B.S.: Aerospace Engineering, University of Kansas, December 2005

PROFESSIONAL EXPERIENCE:

Research Engineer, Woods Hole Oceanographic Institution, May 2012 - present
Engineer II, Woods Hole Oceanographic Institution, Nov 2009 - May 2012
Graduate Research Fellow, Purdue University, Aug 2007 - Oct 2009
Associate Engineer, Rocketplane Inc., Jan 2006 - May 2007
Engineering Intern, Lockheed Martin Aeronautics Company, Summer 2005
NASA Academy Research Associate, Goddard Space Flight Center, Summer 2004
Intern, Jet Propulsion Laboratory, Summer 2003

HONORS & AWARDS:

National Science Foundation Graduate Research Fellowship, 2008
Ross Fellowship, Purdue University, 2007
NASA Reduced Gravity Student Flight Opportunities Program, 2005
NASA Academy, Goddard Space Flight Center, 2004
National Merit Scholarship (University of Kansas), 2001-2005

PROFESSIONAL AFFILIATIONS:

Member, American Geophysical Union, Jan 2012 – present.

RESEARCH INTERESTS:

Development of exploration vehicles, ocean technology.

SUPERVISION AT WHOI:

Marjorie Lucas, Engineering Assistant II, Summer 2011

CRUISE PARTICIPATION:

Dec 2011: R/V Atlantis, Gulfport, MS to Gulfport, MS. Supported at-sea Alvin operations.
Dec 2011: R/V Atlantis, Gulfport, MS to Jacksonville, FL. Packed and prepared Alvin vehicle for shipping to Woods Hole.

PAPERS PRESENTED AT MEETINGS:

O'Hara, L., Yu, Y., Anderson, W.E., Merkle, C., Smith, R., "A Vortex Shedding-Based Combustion Response Model Applied to an Unstable Liquid Rocket Combustor," 45th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Denver, CO, 2-5 Aug, 2009.

O'Hara, L., Sisco, J. C., Portillo, E., Anderson, W.E., "Measurement of Phase Relationship between Vortex Shedding and an Unsteady Acoustic Field," 44th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Hartford, CT, 21-23 July, 2008.

Yu, Y., O'Hara, L., Sisco, J., Anderson, W.E., "Experimental Study of High-Frequency Combustion Instability in a Continuously Variable Resonance Combustor (CVRC)," 47th AIAA Aerospace Sciences Meeting including The New Horizons Forum and Aerospace Exposition, Orlando, Florida, 5-8 January, 2009.

CERTIFICATIONS:

Scientific Diver, American Association of Underwater Sciences (AAUS), June 2011 – present
Advanced Open Water, NITROX certified, National Association of Underwater Instructors (NAUI), Aug 2011 – present
Open Water SCUBA certified, Professional Association of Divers Instructors (PADI), Sept 2008 – present
Private Pilot License, Sept 2000 – present

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