

**Scott R. Sideleau**  
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**Overview**

Scott R. Sideleau is the NUWC Undersea Warfare Combat System Department's Product Development Division's Unmanned Systems Chief Engineer and has worked with UxV technology development and demonstration since 2007. He is a computer systems and software engineer with many years of operational experience fielding autonomous marine vehicles (i.e. robots) and providing critical engineering support both ashore and at-sea at various multi-national, NATO-sponsored exercises. Much of his work has focused on the development of standards-based software interfaces for hybrid control models on Autonomous Underwater Vehicles (AUVs), especially the OceanServer Iver2 platform. More recently, Mr. Sideleau led the software integration efforts that successfully transitioned the Advanced Weapons Enhanced by Submarine UAS against Mobile targets (AWESUM) capability to the Submarine Fleet. He has also led the submarine software architecture efforts that transitioned the Control Station Human Machine Interface (CaSHMI) to the Submarine Fleet. Mr. Sideleau earned the BS degree (with distinction) in Electrical & Computer Engineering from Worcester Polytechnic Institute (WPI) and he is pursuing an MS degree in Computer Science at the University of Massachusetts at Dartmouth. His research interests include adaptive oceanographic sampling with marine robots, hybrid heterogeneous marine robot fleet autonomy, and the identification and resolution of Command & Control (C2) operational needs of the US Navy's various marine robot initiatives.

**Experience**

*Naval Undersea Warfare Center, Division Newport*

Unmanned Systems Chief Engineer	03 / 2016 - present
Computer Software & Systems Engineer	05 / 2007 - 03 / 2016

*Worcester Polytechnic Institute*

Computer Helpdesk Student Supervisor	05 / 2005 - 05 / 2007
Computer Helpdesk Support Specialist	08 / 2003 - 05 / 2005

**Education**

<i>University of Massachusetts at Dartmouth</i>	2013 - present
Master of Science (MS), Computer Science	

<i>University of Rhode Island</i>	2007 - 2008
Graduate Coursework: Ocean Engineering, Oceanography	

<i>Worcester Polytechnic Institute</i>	2003 - 2007
Bachelor of Science (BS), Electrical & Computer Engineering with Distinction	

### **Awards**

NAVSEA Warfare Center (WC) Award for Excellence in External Collaboration -- Team C2CrossUxV (Co-PI)	05 / 2017
Joint Capability Technology Demonstration (JCTD) Team of the Year Award -- Team AWESUM (Software Integration Lead)	05 / 2017
NAVSEA Engineering Team of Year -- Team AWESUM (Software Integration Lead)	02 / 2017
NR&DE C-sUAS Innovation Jam "Harmonious Award" -- Team High Ground (Lead)	01 / 2017
NAVSEA Warfare Center (WC) Award for Excellence in Transformation & Change Agents -- Team C2CrossUxV (Co-PI)	09 / 2015

### **Certifications**

SPRDE-SE (Systems Engineering) Level 1	12 / 2007
CSWF Information Assurance Technician (IAT) Level 1	01 / 2011
Linux+	01 / 2011
LPIC-1	01 / 2011
Certified Linux Administrator (CLA)	02 / 2011
Data Center Technical Specialist (DCTS)	02 / 2011
A+ Continuing Education (CE)	01 / 2012 - present
A+	12 / 2010

### **Skills**

- Software Development
- Embedded Systems
- Systems Engineering
- Unmanned Systems (UxV)
- Command & Control (C2)
- Problem Solving
- Research
- Simulations
- Hardware
- Optimization
- Customer Relations
- SQL Databases
- Signal Processing
- Blackwing UAV
- Iver UUV
- MOOS-IvP
- Linux
- Red Hat / Enterprise Linux
- Ubuntu
- MacOS
- Windows
- C/C++
- Python
- Java
- HTML, CSS, & JavaScript
- VHDL

### **Languages**

- English
- French

***Research Interests***

Adaptive oceanographic sampling with marine robots, hybrid heterogeneous marine robot fleet autonomy, standards-based Command & Control (C2), MOOS-IvP interfaces and application development, MOOS-IvP autonomy (i.e. behavior) development, underwater acoustic communications, satellite communications, computer architecture, software engineering, computer programming, modeling and simulation, computer networking, etc.