

# NAVAL SCIENCE AND TECHNOLOGY

## ENGR 3109: Navy STEM Professional Development Seminar

Wednesday September 25, 2019

5:00 pm to 6:00 pm

UConn, ITE 336

### “DESIGNING RELIABLE, HIGH PERFORMING AUTONOMOUS SYSTEMS FOR A UNDERWATER ENVIRONMENT”

**DESCRIPTION:** Bluefin Robotics designs and produces UUVs of several sizes (9-inch, 12-inch, and 21-inch in diameter) for various applications (mine warfare, research, locating undersea debris, classified programs, etc.). In this presentation, Hanna will discuss the challenges of operating in a marine environment: namely corrosion, navigation, material selection, and pressure. She will also give an overview on the products that Bluefin Robotics develops, specifically the Knifefish Surface Mine Countermeasure System. This presentation will also cover some of the opportunities that are available at Bluefin Robotics and General Dynamics, what majors are accepted, and the types of projects that are carried out at the Bluefin Robotics facility.

### HANNA THOMAS, UUV IPT LEAD

#### BLUEFIN ROBOTICS, QUINCY, MA

**Hanna Thomas** graduated from the School of Engineering at UConn in 2013, where she majored in Electrical Engineering. On campus, she served on the leadership board of IEEE and Phi Sigma Rho Engineering Sorority. Hanna is now working as a Systems Engineer, holding the role of the Unmanned Undersea Vehicle (UUV) Integrated Product Team (IPT) Lead on her program at Bluefin Robotics – General Dynamics Mission Systems. She manages a team of mechanical, electrical, software, and firmware engineers. The UUV IPT is responsible for resolving issues with, and making any changes to the undersea vehicle subsystem. In this role, Hanna identifies capability gaps and failure modes in the system, and works with her team to develop one or more solutions, which are presented to and approved by the Navy.

## Upcoming Distinguished Seminars



### Panel Discussion

URI CAREER FAIR

OCTOBER 2ND @ 5PM

URI – Avedisian Hall 240



### Matthew Zimmerman

V.P. Engineering

FAROUNDER

OCTOBER 9TH @ 5PM

URI – Avedisian Hall 240



### LT Caitlin Tye

Navy Recruiting District  
New England

OCTOBER 16TH @ 5PM

UConn – ITE 336



### Bill Matuszak

Vice President

IN-DEPTH

ENGINEERING

OCTOBER 23RD @ 5PM

URI – Avedisian Hall 240

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