CyberBoat Challenge 2024
hosted by the University of South Carolina Beaufort

Location: University of South Carolina Beaufort, 1100 Boundary Street, Beaufort, SC 29902
https://maps.app.goo.gl/L84pToF59dUct3uA7

Dates: 17 – 19 December 2024 (Travel on Monday 16 Dec and Friday 20 Dec)

Student Lodging:	Other Lodging:	Other Lodging:
Best Western Sea Island Inn	Spring Hill Suites	Hilton Garden Inn
1015 Bay Street	2227 Boundary St	1500 Queen St
Beaufort, SC 29902	Beaufort, SC 29902	Beaufort, SC 29902
843.522.2090	843.379.1124	843.379.9800

Note: Double occupancy rooms for students are covered by the Maritime Cybersecurity Institute.
Breakfast meals may be offered by the hotels; breakfast is not served at the CyberBoat Challenge.

Agenda

Tuesday 17 Dec 2024

0745	Student Shuttle Leaves Sea Island Inn for USCB		
0800	Introductions and Welcome	Dr Eric Skipper, PhD --- Executive Vice Chancellor USCB	
0830	Overview of Marine Systems	Duncan Woodbury	Liberas
0920	Break		
0930	Introduction to J1939 and NMEA 2000	Jeremy Daily	Colorado State University
1200	Lunch Presentation	Warren Parker	South Coast Cyber Center
1300	Automated Identification System	Gary Kessler	Fathom5
1450	Break		
1500	Wireless Systems	Eric Thayer	Assured Information Security
1800	Dinner Presentation	Bryan Johnson	US Coast Guard
1900	Case Studies on Hacking Systems	Jake Jepson	Red Balloon Security
2000	Student Shuttle Leaves for Hotel		

Wednesday, 18 Dec 2024

0745	Student Shuttle Leaves Sea Island Inn for USCB		
0800	National Marine Electronics Association	Mark Oslund	NMEA
0830	NMEA OneNet Introduction	Alex Polmans	NMEA
1020	Break		
1030	Applied Cryptography	Mert Pese	Clemson University
1200	Lunch Presentation from Industry	TBD	
1300	Assessment Preparation	Karl Heimer	Heimer and Associates
1400	Mentor Guided Assessments	Various Mentors	
1800	Dinner		Note: During the assessment period, students will have access to boats in the facility and some on-water testing will be encouraged at the City of Beaufort docks. All students will be invited for a boat ride from Beaufort City Dock. Warren Parker is the point of contact for on-water activities.
1900	Mentor Guided Assessments	Various Mentors	
2000	Student Shuttle Leaves for Hotel		

Thursday, 19 Dec 2024

0745	Student Shuttle Leaves Sea Island Inn for USCB		
0800	Mentor Guided Assessments	Various Mentors	
1200	Lunch		
1300	Assessment Presentation Preparation	Various Mentors	
1500	Presentation of Results	Students	
1800	Dinner with concluding remarks	Rick Siebenaler	Maritime Cybersecurity Institute
1930	Student Shuttle Leaves for Hotel		

Sponsors

A special thank you goes out to the sponsors of the event.

Host Sponsor

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South Coast Cyber Center

BEAUFORT WATER SEARCH & RESCUE

FATHOM5

BUTLER Marine

ORBITAL Installation Technologies

OneNet

SYSTEMS ENGINEERING
COLORADO STATE UNIVERSITY

Mission

Following in the successful model of the CyberAuto, CyberTractor and CyberTruck Challenges, the mission of the CyberBoat Challenge is two-fold:

1. Develop the next generation workforce by bringing awareness, excitement, professional involvement, and practicum-based training to the maritime cyber domain.

2. Establish a community of interest for maritime cybersecurity that transcends individual companies or departments and reaches across disciplines and organizations to make a more universal and experienced base of engineers and managers.

Program Committee:

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