

Capability Statement

Business Summary

Palaemus Oceanic, LLC is an ocean technology company focused on advancing the field of maritime sensing by bridging the gap between research/academia and practical application. We seek out novel technologies and apply them to the design of sensing equipment for oceanography, defense, and research. Our goal is to establish a connected network of sensors that are survivable, expendable, and accurate. With 80% of the oceans unexplored, there is an opportunity to greatly improve our understanding of the environment through improved data collection methods that are cost effective and scalable. With a focus on novel approaches to power, communications, materials, and manufacturing efficiency, we look to bring cutting edge technologies to the field. This translates to improved hurricane prediction, better defense situational awareness, and commercial cost savings.

Core Competencies

We understand the challenges behind R&D engineering and technology development, and have worked on a number of projects requiring collaboration between researchers and the engineering team.

Conceptual Design - notional models to communicate the broad outlines of function and form

Engineering - sorting out the technical concerns through detailed design

Systems Engineering - fully defining the requirements & ensuring all parts of the system work together seamlessly

Technology Transfer - taking novel technologies from academia/research to the field of maritime sensing

Prototype - building an early, physical model to further refine the concept

Test - verifying the system meets requirements and provides the data needed

Past Performance

Compact, Covert Periscope - H92222-12-C-0059 (Individual Contributor for 3Phoenix, Inc.)

Underwater Optical Train Design - working with researchers, developed mounting method for an array of lens elements for subsea applications

Stress Analysis of Optronics Mast - verified mechanical design is suitable to account for external pressure, wave slap, and shock loading

Pressure Sensor Housing - use of a delicate ceramic thickfilm pressure sensor required a robust method of mounting to accommodate freeze/thaw cycles and protect the sensor

Cage Code: 90G86 | DUNS Number: 117978078 | NAICS Codes: 541715, 334511, 541330

Differentiators

We are located in North Carolina's Research Triangle, two hours from the Port of Wilmington and surrounded by some of the best research universities in the country. Our ability to leverage the engineering talent and expertise of these institutions, combined with partnership opportunities with complimentary businesses, puts us in a unique position to bring novel technologies to the field of maritime sensing. We have worked on everything from research projects to large-scale production and understand the gap that exists between the two. Our goal is to bridge this gap and leverage cutting edge technologies in practical applications.