



Detect

Communicate

Adapt

JPAnalytics.com

Preparing Our Forces

JPAanalytics.com

FOR THE MARITIME BATTLESPACE

JPAanalytics (JPA) develops underwater acoustic technology for communications and detection systems for defense applications, ranging from complete hardware packages to software solutions.

In addition, JPA provides systems and algorithm development support to its partners for their own products. Our capabilities enable each partner to rigorously test new systems prior to prototype builds and field tests.

Acoustic Communications

- The Modular Clandestine Communications System (MCCS)
- Multiuser Tolerant Signal Design
- Custom-Designed Acoustic Arrays for Superior Performance
- The Mobile Reconfigurable Acoustic Network (MoRAN) System (in development)
- Non-Clandestine High-Rate Acoustic Communications Option (in development)

Acoustic Detection

- Passive Detection with Adaptive Processing on Very Large Arrays
- Active & Passive Detection at Very Low SNRs
- High Pulse Repetition Rate Active Systems

Systems & Algorithm Development Support

- Underwater Acoustic Characterization & Modeling
- System Performance Analysis & Prediction
- Acoustic Array Design Analysis

Redefining the Performance Boundaries In Complex Ocean Environments

At JPA, our physics-based development and engineering services exploit and respect the limits of the environment. Utilizing first principles engineering practices, we develop modularly structured solutions tailored to meet each customer's unique requirements.



OUR CAPABILITIES INCLUDE:

Algorithm Development & Analysis

Acoustic Systems Modeling

Embedded System Development

Field Deployment & Data Analysis

System Integration

Sophisticated Acoustic and System
Simulation & Testing



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82 Technology Park Drive
East Falmouth, MA 02536
(508) 986-9425

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Expertise Recognized Worldwide

JPA's work is grounded in over 75 years of experience that includes academic and industrial research and development, commercial product development, and field deployment, testing and data collection. Our broad background and culture allow us to think 'outside the box' and develop solutions for problems that were previously considered intractable.

By combining our rigorous R&D expertise and an emphasis on first principles techniques with multiple layers of experience in the defense and commercial environments, we offer unique insights regarding how to approach challenging problems.

Working cooperatively and collaboratively, JPA delivers the ultimate solution to target the needs of each customer and enable new capabilities. As your partner, we'll determine the best method of delivering our products – generating solutions from software to complete hardware packages. JPA is committed to achieving excellence in all of its services and products and holds itself accountable for the performance of the final product.