



ORBIS

Engineering Solutions with
Purpose, Precision, and
Innovation.

Corporate Capabilities



Who We Are

ORBIS Inc. is a veteran-owned leader in delivering mission-critical technology, engineering, logistics, and strategic solutions. For over two decades, we've empowered government and industry partners to innovate, overcome complex challenges, and achieve operational excellence.

Trusted Solutions. Mission Success.

500+

Employees Globally

25+

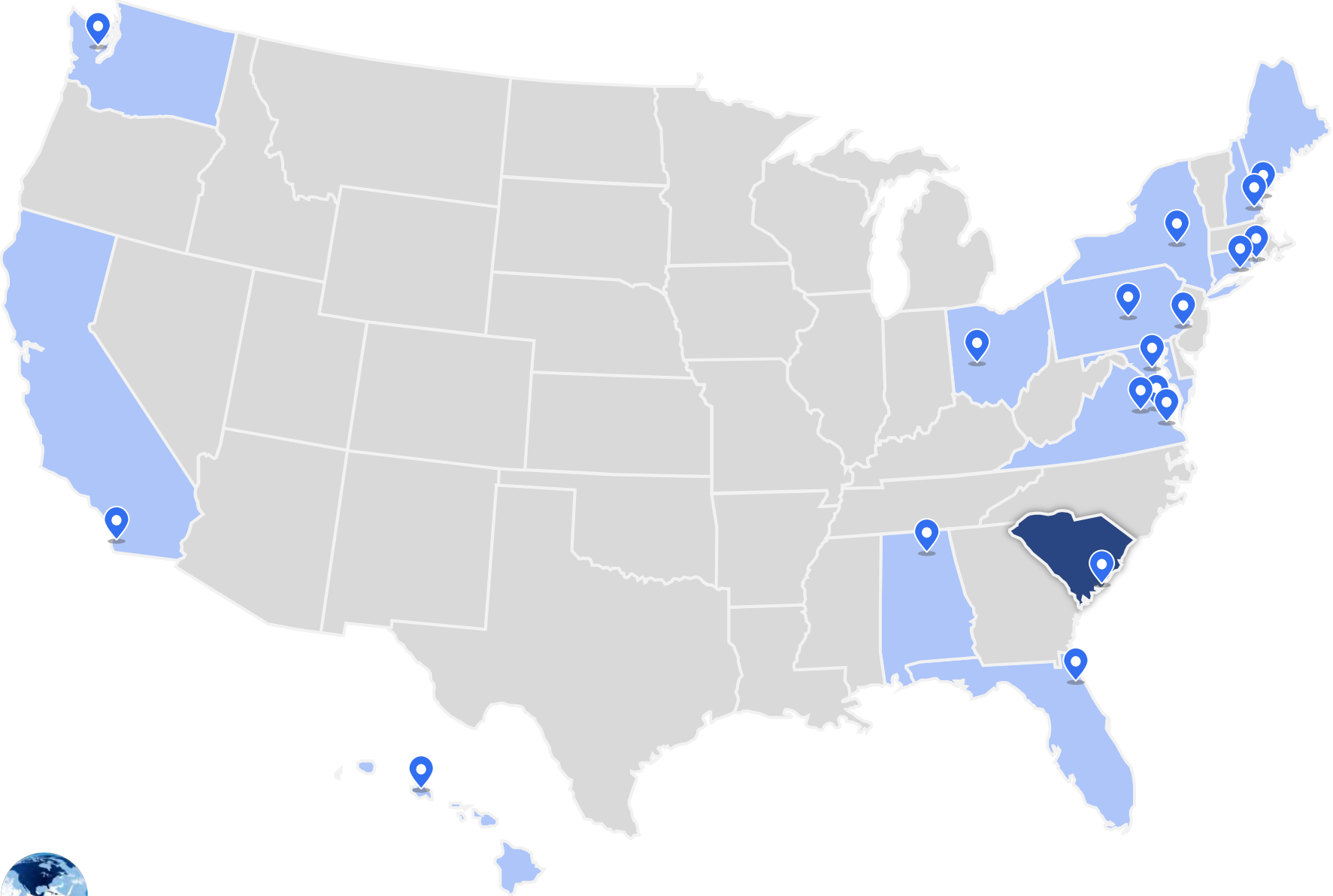
Years of Innovation

33%

Veteran Employees

- Veteran-Owned Small Business Established in 2000
- Engineering, R&D, Logistics, IT & Cybersecurity, Obsolescence Remediation, Technical, Trade, and Professional Services to DoW and Commercial Customers
- Agile Development Methodologies Appraised at CMMI Level 4 for Development and Service Projects
- Cybersecurity Maturity Model Certification (CMMC) Level 2 (Self)
- ISO 9001:2015 Certified

Where We Are



- Aberdeen, MD
- Bremerton, WA
- Charleston, SC**
CORPORATE HEADQUARTERS
- Dayton, OH
- Everett, WA
- Groton, CT
- Hampton Roads, VA
- Huntsville, AL
- Kittery, ME
- Mayport, FL
- Mechanicsburg, PA
- Newport, RI
- Patuxent River, MD
- Pearl Harbor, HI
- Philadelphia, PA**
- Portsmouth, NH**
- San Diego, CA
- Seattle, WA
- Washington, DC**
- West Milton, NY



*Bold = Office Locations



Prime Contract Vehicles

OTA Consortium Memberships:



UNDERSEA TECHNOLOGY
INNOVATION CONSORTIUM
UTIC



NSRP
NATIONAL SHIPBUILDING RESEARCH PROGRAM™
Taking Shipbuilding and Repair to the Next Level



IWRP
INFORMATION WARFARE RESEARCH PROJECT



MSTIC
Maritime Sustainment Technology and Innovation Consortium



SeaPort-NxG

- Logistics and Engineering
- AIT Oversight and Coordination
- Corporate Resource Management Support
- Leadership Development
- Maintenance Engineering Planning
- IT & Cybersecurity
- Non-Destructive Testing Services
- Command Level Quality Assurance & SUBSAFE



Industrial Services

- **NAVAL SHIPYARD TRADE SUPPORT**
 - Norfolk Naval Shipyard
 - Pearl Harbor Naval Shipyard
 - Portsmouth Naval Shipyard
 - Puget Sound Naval Shipyard
 - Production Supervisor Coaching



GSA

- Professional Engineering Services (PES) Schedule



Defense Logistics Agency

- SBIR Phase I Reverse Engineering
- Reverse Engineering Technical Data Initiative (RETDI)



OASIS +

- Unrestricted & Small Business



eFAST

- Electronic FAA Accelerated and Simplified Tasks, FA: ATS, BAM, R&D, ES, CSD & CSS

Who We Serve

ORBIS works alongside the Department of Defense and commercial clients to solve complex engineering challenges. We leverage our extensive portfolio of engineering and technical support capabilities to deliver innovative, cost-effective, and on-time solutions that exceed the requirements of both government and commercial customers. From naval systems and defense applications to industrial and commercial technologies, we bring the same commitment to excellence and reliability to every project, regardless of sector.

Federal

- NAVSEA 04XR, 04XQ, 04RD, 09R, 04Z, 05S, 05P, 05U, 00FS (Fire Safety), SEA 10
- NAVSEA and NAVAIR SBIR/STTR Program Office
- Team Submarine, Aircraft Carriers, Unmanned & Small Combatants, Integrated Warfare Systems
- DoN Chief Information Officer (CIO)
- SEA 03, Naval Sea Logistics Center (NSLC)
- Naval Shipyards – Norfolk, Pearl Harbor, Portsmouth, Puget Sound, HII Newport News - Carrier Refueling Complex Overhauls
- Naval Undersea Warfare Center (NUWC) – Newport
- Submarine Force Pacific (SUBPAC)
- Naval Surface Warfare Centers (NSWC) – Philadelphia, Submarines (Code 00Q, 242, 454, 226)
- General Services Agency (GSA)
- Defense Logistics Agency (DLA)
- Submarine Maintenance Engineering, Planning and Procurement (SUBMEPP)
- Naval Information Warfare Center (NIWC) – Atlantic/Pacific
- Carrier Team One
- Maritime Industrial Base (MIB)

Commercial

- Clemson University Restoration Institute
- New Jersey Transit
- Savannah River National Laboratory
- Hubner Manufacturing Corporation
- Washington Area Metropolitan Transit Authority (WMATA)
- Schaltbau
- ICL Fertilizers
- Fluor Marine Propulsion
- Wabtec Passenger Transit
- Westinghouse
- Electric Boat
- Siemens
- ASC Pty Ltd
- Maritime Operations Group (MOG)



How We Deliver

We deliver through a competency-driven operating model that aligns specialized business units to mission needs and drives disciplined program delivery. By applying deep expertise across cybersecurity, logistics, engineering, and workforce development, we provide trusted outcomes and enduring advantage for government and industry partners.

ORBIS Government Services

- IT & Cybersecurity
- Logistics & Configuration Management
- Business & Administrative Services
- Engineering Management & Consulting

ORBIS Submarine Services

- Submarine Engineering & Technical Services
- Program Office & Shipyard Support
- Lifecycle Sustainment & Maintenance
- Fleet & In-Service Engineering Support
- Maintenance Planning & Technical Documentation
- International Sustainment & Capability Development

ORBIS Industrial & Workforce Solutions

- Workforce Development & Training
- Comprehensive Modernization Projects
- Routine Maintenance
- Emergency Repairs
- Organizational Assessments
- NSI – Naval Shipyard Institute

ORBIS Product Solutions

- AI + ML
- Hardware & Software Integration
- Rapid Prototyping
- Test & Evaluation Systems
- Engineering & Design



Government Services

Proven Mission Support

Trusted by defense and federal partners for more than two decades, ORBIS delivers critical support where precision, compliance, and mission success are essential.

ORBIS proudly serves as a strategic partner to NAVSEA, the Warfare Centers, and the broader Department of War, delivering mission-critical support across the Navy industrial enterprise. Rooted in a deep heritage of submarine program expertise, we provide comprehensive lifecycle support from initial acquisition through complex modernization, quality assurance, and certification. Our delivery integrates engineering management and consulting with IT and cybersecurity, logistics and configuration management, and business and administrative services to ensure each initiative meets the highest standards for performance, compliance, and fleet readiness.

Agile Development Methodologies Appraised at

CMMI Level 4

For Development and Service Projects

Certified

ISO 9001:2015

Quality Management System

Full Implementation of All

NIST 800-171 & CMMC L2

Controls

IT & Cybersecurity: Technology Strategy, Support, and Solutions

- Enterprise System Support
- Software Development
- Systems Administration
- Information Assurance
- Cybersecurity Compliance
- CMMC Consulting
- Oracle Database & Data Management Support
- Life Cycle Management
- Azure AD Management, Office 365 Systems Management
- SharePoint Development
- User Centered Design / User Experience (UX)
- Web Development
- Data Warehouse Management
- SAP Business Objects Administration
- Active Directory Management
- Citrix Administration
- Oracle WebLogic Administration
- Java Application Development
- Risk Management Framework (RMF) Support
- Automated Testing
- Data Acquisition
- Machine Learning



ORBIS

Government
Services

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Logistics & Configuration Management

- Surface Ship and Submarine Acquisition and Sustainment Logistics
- Availability Work Package Support
- Fleet SSGN/SSBN Type Desk and Budget Support
- Configuration Management
- NAVSEA Corporate Research Support
- Integrated Product Support
- Shipboard System Calibration
- Waterfront Shipyard Trade Labor Support
- Level I/SOC Material Receipt Inspection
- Shipyard IT System Maintenance Support
- Fly-by-wire Life Cycle Management Support
- SUBSAFE Certification and Quality Assurance
- Outfitting Support
- Installation and Checkout (INCO) Material Management
- DMSMS Management and Mitigation Supply Chain Management and Risk Analysis



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Business & Administrative Services

- Acquisition Strategy Support to Senior Leadership
- Executive Coaching and Leadership Development
- Submarine Risk Management & Mitigation Support
- Corporate Operations Support
- Project Integration & Process Improvement
- Metrics Development & Assessment
- Engineering Management Consulting
- Program Management Support
- Ship Maintenance, Repair and Modernization Trade Labor Support
- Measures and Milestone Development & Implementation
- Validation and Certification
- Organizational Assessment
- Budget / Financial Management
- SME Consulting
- Submarines Maintenance Cycle Planning
- Submarines Overhaul Activities
- Shipyard Workforce Analysis
- Shipyard Facilities
- Model Software Development



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Engineering Management & Consulting

- Mechanical and Electrical Design
- Build-To-Print Drawing Packages
- Equipment Life Cycle Support
- Integrated Product Data Environment
- Shipboard Shock Analysis
- Systems Engineering and Integration
- Structural, Fluids and Material Engineering
- System Design Integration and Implementation
- Planned Maintenance Systems Development
- Component Testing and Environmental Qualification Testing/Qualification
- Complete System Development Including:
Design, rapid prototyping, development, testing, and production
- Extensive Facilities for RDT&E:
Research new products and services for existing and new customers
- Welding and Non-destructive Test Processes
- Modeling & Simulation
- Computer Aided Design
- Risk Management
- System Safety Engineering



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SBIR for Obsolescence Management



WHY UTILIZE ORBIS FOR SBIR SUPPORT?

- ▶ Leverage ORBIS's extensive experience with DLA and NAVSEA to expeditiously establish a Phase II or III SBIR Contract for Obsolescence Management support.
- ▶ Our team can confidently navigate SBIR contracting pathways and lead customers through the establishment of a new Phase II or III contract vehicle.

- ▶ Once a Phase II or III contract vehicle is established, ORBIS can move quickly from Technical Data Package to production.

Phase I Foundation

Contract Vehicle

Production

- ▶ ORBIS established Phase I foundation supporting transition to Phase II or Phase III.
- ▶ Guiding customers through establishment of a Phase II or Phase III contract vehicle.
- ▶ Enabling rapid transition from TDP to production.

PROVEN PHASE III EXECUTION

ORBIS established and executed a Phase III SBIR with NAVSEA, structuring the contract duration and ceiling to execute multiple task orders.

- Supported Team Submarine through Phase III SBIR execution.
- Executed task orders supporting hardware and software obsolescence for PMS 401 and PMS 396.
- Developed obsolescence packages for multiple UK Trident components and supported OMIS cases.

▶ SBIR Scope

Supports the Following Functional Areas:

- System Engineering and Design
- Environmental Testing
- Design Assessment Calculations
- 3D Modeling and CAD Services
- Platform Integration and Backfit
- Feasibility and Failure Analyses
- Procurement and Manufacturing
- Integrated Logistics Support
- Manage and Resolve Product Design Obsolescence
- Material Assessments
- Reverse Engineering
- Geometric Dimensioning and Tolerancing (Build-to-Print)
- Data Analytics and Management
- Installations and Alterations
- Mechanical and Electrical Assembly and Test

How Do You Access Phase I SBIR and Add a New Phase II or III Contract?

- Draft a Statement of Objectives to establish requirements and initiate Phase II or III SBIR based on source of funding and scope of task orders
- SBIR Phase I awarded competitively by DLA, Phase II and III contracts are sole sourced (No additional competition required)
- Rapid acquisition 60–75 days, minimal effort to get started
- Can add teammates as needed (large or small companies)
- Ability to scope unfunded requirements for incremental funding with unlimited ceilings
- Can take any type of Government funds (e.g., OMA, O&M, SCN, WCF, RDT&E, etc.)
- Delivery order can be for “products, production, services, research/R&D”
- Flexibility in contract type (e.g., FFP, CPFF, T&M, etc.), flexible contract PoP

Corporate Contact

Chris Thomas

Vice President Growth
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Submarine Services

Mission-Ready Submarines. Sustainment That Scales.

Advancing Submarine Engineering, Sustainment, and Lifecycle Excellence.

ORBIS has supported Team Submarine and NAVSEA, including Headquarters, Warfare Centers, and Field Activities, for more than 20 years, delivering embedded technical and programmatic expertise across submarine new construction, SUPSHIP oversight of nuclear-capable shipbuilders, and direct support within fleet concentration areas. Our team provides in-service engineering support and lifecycle maintenance expertise in partnership with SUBMEPP, addressing maintenance challenges across all submarine classes and developing sustainment documentation for new platforms.

As a primary Capability Partner, ORBIS also supports the Australian Government in establishing sovereign sustainment capability for Virginia-class submarines.

- Submarine Engineering & Technical Services
- Program Office & Shipyard Support
- Lifecycle Sustainment & Maintenance
- Fleet & In-Service Engineering Support
- Maintenance Planning & Technical Documentation
- International Sustainment & Capability Development

Who We Support. What We Deliver.

Team Submarine Program Offices Support and Specialized Projects

- Virginia Class Material
- Capacity Model
- SSN(X) Maintenance And Logistics Planning
- Perform To Plan (P2P) New Technologies Implementation
- Sub Team One
- McCoy Shipbuilding Improvement Initiative

COMSUBPAC SSBN/GN Maintenance Support

- Long Range Availability Planning Tool

NSWC Philadelphia Support

- SUBSAFE QA
- Submarine Sails Engineering and Technical Services
- Command Quality

NUWC Newport Support

- Towed Array Sonar and Handling Systems, Including DLA Form 339 Obsolescence Support, Reverse Engineering, And Manufacturing

SUBMEPP

- Maintenance Engineering Planning, Maintenance Instruction Documents, Maintenance Scheduling, and Administration Support

AUKUS

- Supporting Australian Government's Selected Sustainment Activity

Maritime Sustainment Technology and Innovation Consortium (MSTIC)

- Requests For Solutions, Including Lithium-ion Battery Ready Storage Lockers

Undersea Technology Innovation Consortium (UTIC)

- Requests For Solutions



ORBIS

Submarine Services

ORBIS delivers more than 20 years of experience providing embedded engineering and programmatic expertise across new construction, in-service support, and lifecycle sustainment, developing sustainment documentation for new submarine classes, and supporting the Australian Government's Virginia-class sustainment capability.

Support Across the Following Functional Areas:

- Program Management
- System Engineering and Design
- Business and Financial Management
- Integrated Logistics
- Quality Assurance
- Maintenance Engineering Planning
- Data Analytics and Management
- 3D Modelling and CAD Services
- Procurement and Manufacturing
- Manage and Resolve Product Design Obsolescence
- Platform Integration and Backfit
- Reverse Engineering
- Design Assessment Calculations
- Feasibility and Failure Analyses
- Mechanical and Electrical Assembly and Test
- Installations and Alterations
- Workload Capacity Studies
- AUKUS Capabilities



Submarine Services

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Industrial & Workforce Solutions

[Precision. Reliability. Readiness.](#)

Ship Maintenance, Repair, and Modernization Trade Labor Support

ORBIS provides specialized Ship Maintenance, Repair, and Modernization Trade Labor Support. We offer skilled labor and technical expertise to ensure vessels are maintained, repaired, and upgraded to meet the highest standards of performance and safety. Our services include routine maintenance, emergency repairs, and comprehensive modernization projects, all executed with precision and efficiency to minimize downtime and maximize operational readiness.

[Training Today's Workforce for Tomorrow's Fleet.](#)

Workforce Development and Training

ORBIS created the Naval Shipyard Institute to be the premier training partner for skilled trades and professional workforce development, strengthening our Nation's Public Shipyards and the Maritime Industrial Base. To meet the evolving demands of our maritime workforce, we are rethinking traditional training methods. By prioritizing innovation, efficiency, and sustainability, we are accelerating workforce readiness and ensuring long-term fleet viability.

Naval Shipyard Trade Support (Touch Labor)

- Competitive rates, comparable to naval shipyard local wages
- Labor Force fully vetted for work in Public and Private Shipyard Industrial Areas
- ORBIS Industrial Services provides our partners and customers with professional marine trade services
- Our experience in naval ship repair, maintenance and modernization allows us to deliver our customers a vast array of trade skill support



ORBIS

Industrial & Workforce Solutions

ORBIS provides specialized ship maintenance, repair, and modernization trade labor support to ensure vessels are maintained, repaired, and upgraded to meet the highest standards of performance and safety.

Industrial Services

- Marine Electricians
- Temporary Service Electricians
- Marine Pipefitters
- Temporary Service Pipefitters
- Outside Machinists
- Painter/Blasters
- Rigger/Weight Handlers
- Shipfitters
- Welders
- Sheetmetal Mechanics
- Shipwrights/Staging
- Forklift Operators
- Firewatch & Tank Watch



ORBIS

Industrial & Workforce Solutions

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Product Solutions

Smarter Systems. Faster Solutions.

Transforming Innovation with AI, Engineering Expertise, and End-to-End Technical Solutions.

We leverage artificial intelligence and machine learning to transform data into insights, automate complex processes, and enhance decision-making. Combined with expertise in hardware/software integration, rapid prototyping, and test and evaluation systems, our team delivers end-to-end solutions that accelerate development and support both government R&D and commercial innovation.

- AI + ML
- Hardware & Software Integration
- Rapid Prototyping
- Test & Evaluation Systems
- Engineering & Design

Capabilities

AI + Machine Learning

We harness Artificial Intelligence and Machine Learning to transform data into insights and automate complex processes. Our team builds tailored models that enhance decision-making and boost operational efficiency. With expertise in predictive analytics, natural language processing, computer vision, and more, we help you unlock the full potential of AI and ML.

Hardware & Software Integration

Orbis provides Hardware (HW) and Software (SW) Integration, ensuring that your technology ecosystem operates seamlessly. We bring together diverse hardware components and sophisticated software systems to create cohesive, high-performing solutions. With our extensive experience across various technologies and platforms, we deliver tailored integration services that enhance functionality and efficiency, meeting your unique operational requirements.

Rapid Prototyping

Orbis is adept at Rapid Prototyping, ensuring swift and efficient prototype development to accelerate your product innovation process. Utilizing cutting-edge technologies and materials, we craft detailed prototypes that closely mimic the final product. This approach allows for quick adjustments and improvements, ensuring your design is perfected before full-scale production begins.

Test & Evaluation Systems

Orbis delivers comprehensive Test & Evaluation Systems to ensure the reliability and performance of your products and systems. We provide end-to-end testing solutions, encompassing design, implementation, and analysis, to validate functionality and compliance with industry standards. Our expertise guarantees that your systems undergo rigorous testing and evaluation, yielding precise and actionable insights to enhance quality and performance.



ORBIS

Product Solutions

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Capabilities

- AI / Machine Learning
- Automated Test Systems
- Data Acquisition Systems
- Real-Time Systems
- Embedded Solutions
- Software Development
- Prototyping
- Mechanical Design and Modeling
- COTS Integration
- Process Control & Industrial Automation
- Hardware in the Loop



ORBIS

Product
Solutions

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AI-Driven NDT for Weld Inspection

Transforming Radiographic NDT for Naval Shipyard Modernization

The AI demonstrates a **95.6%** reliability rate compared to human inspectors



The Problem

The US Navy needs to modernize its public shipyards and update critical manufacturing infrastructure with Industry 4.0 technologies, capabilities, and associated IT infrastructure.

The Goal:

- Increase productivity to lower maintenance costs.
- Decrease the length of availabilities.
- Improve worker safety.
- Improve process performance.

The US Navy continues to use a radiographic weld inspection technique that has changed little over the past 100 years. In concert with computed and digital radiography, there is significant potential in applying AI to NDT interpretation to support optimizations, from NDT assistance solutions to full NDT AI automation.

The pressure for fast interpretations on individual images is not only a potential detriment to detection accuracy, but slower inspections mean more man-hours.

Our Solution

The focus of this AI is to provide expert-level radiographic image interpretation using a highly trained AI classifier, as well as to increase the productivity of the interpretation process.

ORBIS concluded Phase 2 of this project to develop and deliver an AI Assistant that shows the usability and effectiveness of the AI model with radiographic nondestructive testing (NDT).



The user application in this stage was designed to assist the NDT inspector in detecting and identifying potential discontinuities in x-ray images of welds.

- The interface displays the X-ray image and highlights areas where potential discontinuities are detected by the AI system.
- The user can zoom in and out of the image to examine the highlighted areas and verify whether they are defects or false positives.
- The system provides a confidence score for each detected defect, which the user can use to prioritize their inspection process.



Contact

ORBIS is headquartered in Charleston, South Carolina, with a nationwide and international presence supporting government, commercial, and allied partner initiatives. Major office locations include Washington, D.C.; Portsmouth, New Hampshire; Groton, Connecticut; and Philadelphia, Pennsylvania.

For general inquiries, contact our Corporate Headquarters:

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