Who We Are

- Established in January 1989
- Veteran-Owned Small Business (VOSB)
- Corporate Headquarters in McLean, VA
- Branch Offices
  - Middletown, RI
  - North Stonington, CT
  - Mystic, CT
  - Bellingham, WA
  - San Diego, CA

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Expertise and Goals

- Fleet recognized products and technical expertise
- Experienced and technically qualified personnel
- State-of-the-art tools
- Process driven solutions
- Cost effective services and products
- Technically sound engineering practices
- Strategic handling of new technology tailored to meet our customers’ needs
- Sound business practices and professional ethics

Become your *Company of Choice*

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Our Client Base

- U.S. Navy Commands and Activities
  - Naval Sea Systems Command (NAVSEASYSCOM)
  - Space and Warfare Systems Command (SPAWARSYSCOM)
  - SPAWAR Systems Center Pacific (SSC PAC)
  - Naval Undersea Warfare Center, Division Newport
  - Surface Warfare Officers School (SWOS), Newport
  - Submarine Learning Center (SLC)
  - Naval Submarine School (NAVSUBSCOL)
  - Office of Naval Intelligence (ONI)
  - Naval Surface Warfare Centers (NSWCs)
    - Dahlgren, Dam Neck, Port Hueneme, Carderock, and Philadelphia

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Our Client Base

- Boeing/Argon
- Lockheed Martin Corporation
- Electronic Warfare Associates
- Coastal Systems Design
- Science Applications International Corporation
- General Dynamics Electric Boat
- General Services Administration
- National Ocean and Atmospheric Administration
- Foreign Governments
  - Foreign Military Sales (FMS) and NATO support
RDSI Contractual Vehicles

- **Prime Contracts**
  - N00178–04–D–4113(SEAPORTe Prime)
    - RDSI is approved in all 7 geographic zones as a prime and a subcontractor
    - Approved in all 21 Functional Areas
  - GSA Professional Services GS–23F–0265M

- **Subcontractor to:**
  - SeaCorp
  - Sonalysts
  - Leidos
  - Purvis
  - Indus
Core Competencies

- Systems Engineering
- Shipboard Design and Installation
- Antenna Design and Submarine Communications
- Program and Financial Management
- Research and Development
- Small Business Innovative Research (SBIR)
- Information Technology (IT)/Information Assurance (IA)
- Integrated Logistics Support (ILS)
- Configuration Management (CM)
- Blended Training Solutions

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Sustainment and Life Cycle Support

- Integrated Logistics Support (ILS)
  - Support all logistic elements and disciplines
  - Employ supportability engineering and sustainment processes
  - Develop Product Support Management (PSM) strategies
  - Identify and support AEA, TDA and ISEA ILS requirements
  - Independent Logistic Audit (ILA) documentation and support
  - Member of Integrated Product Teams (IPTs)
    - Antennas, Legacy Periscopes, Imaging Sensors, Electronic Support (ES), Electronic Warfare (EW)
Maintenance Management

- Failure Reporting and Corrective Action System (FRACAS)
  - Ensures failures are formally reported, analyzed, and corrective action identified, and tracked for success
- Planned Maintenance System (PMS) Review and Development
- Reliability Centered Maintenance (RCM) Development and Analysis
  - RCM Certified – Levels 1 and 2
- Support to NAVSEA 04RM Maintenance Engineering Review (MERs)
- Reliability Based Sparing (RBS)
  - Modeling
  - Analysis
  - Sparing recommendations (ship, shore based and forward deployed)
Supply Support

- Provisioning Technical Data (PTD)
  - Technical Support Agent (TSA)
- Range/depth of items to be stocked
- Source, Maintenance and Recoverability (SM&R) Codes
- Level of Repair Analysis (LORA)
- Allowance Parts Lists (APLs), Allowance Equipage Lists (AELs)
  - ICAPS
- Interim Material Supply Support
- Diminishing Manufacturing Sources and Material Shortages (DMSMS)
- Operating Material and Supplies (OM&S) inventory
- Sponsor Owned Material (SOM)
- Defense Logistics Agency (DLA)

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Electronic Documentation Solutions

- Interactive Electronic Technical Manuals (IETM)
  - custom solutions based upon client requirements
    - Individual Design Documents
    - Proof of Concept Model
    - Concept of Operations (CONOPs)
    - Define levels of interactivity
      - Electronic ‘page turners’ (Class 1 and 2)
      - Interactive Electronic Technical Manuals (IETMs) (Class 3 and 4)
      - S1000D Authoring Capability
    - Web based solutions to meet emergent Fleet requirements
    - Rapid development processes to meet aggressive installation schedules
    - ATIS Certified Products

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Data Management

- Database Development and Management
  - MS Access and MS SQL Relational Databases for:
    - NUWC Code 25 Warehouse DB
    - Defense Institute of International Legal Studies (DIILS) Student DB

- Ships Systems Manuals (SSM) Updates

- Engineering Change Instructions (ECIs)

- System Note Development

- Technical Management Manual Activity (TMMA) Support
  - Analyze and adjudicate Technical Manual Deficiency Evaluation Reports (TMDERs) for various systems and equipment
  - Advance Change Notices (ACNs)

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Material Management

- Warehousing and Inventory Management
  - Tactical submarine assets (Imaging & Electronic Warfare and Heavyweight Torpedo assets)
    - Receive, handle, package, mark, inspect, store, transport
    - Database and on-line updates
    - ERP Warehouse Operation Training
    - Generation of routine and special reports
    - Compliance with all Federal, DOD, State and local EH&S regulations
    - SUBSAFE/QAI
    - Metrology and Calibration Laboratory Support
  - Government Furnishing Equipment and Material (GFE/GFM) Storage and Accountability
  - DCMA Compliant Processes
  - Demilitarization (DEMIL) Support
Training

Training

- Prime developer of US Navy Submarine Electronic Warfare Support (ES) Training Emulators support Pipeline, Team Training and Pre-Deployment Training (PDT)
- Turn-key Training Systems – design, develop, deliver and install unique training delivery systems
- Member of the OPNAV Integrated Submarine Imaging System (ISIS) Training Planning Process Methodology (TRPPM) Steering Committee
- Work with NUWC to determine future training requirements for systems, equipment, and temporary engineering changes in support of evolving mission requirements
- Review engineering change proposals to determine impacts to existing Fleet curricula
- Material Support Agent (MSA) supporting NUWC Code 34 and NAVSEA 07L
- Updates to SWOS curriculum for Human Performance Readiness Reviews (HPPR) compliance

Instructional System Design, Development, and Delivery

- Blended as well as stand-alone solutions (ICW, IMI, Simulation; Podium Lecture)

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Configuration Management (CM)

- Configuration Management Plans
- Software Configuration Life Cycle Plans
- Hardware and software baseline documentation
- Baseline development and maintenance
- Conduct hands-on audits
  - Functional – verify “as-tested” functional configuration
  - Physical – verify “as-built” against the technical data package/engineering drawings
- UID Plans and implementation
- Databases
  - CMPro
  - ILSMIS
  - ERP
  - CDMD–OA
  - Custom designs for Configuration Control Indexed IETMs
Design and Drafting

- Computer Aided Design and Drafting (CADD)
  - Technical Data Packages
    - TEMPALTs, SHIPALTs, OPALTs, ORDALTs, Field Changes
    - Temporary Engineering Changes (TECs)
  - Drawing reviews and Validation/Verification
  - Drawing conversions
  - Solid Works
  - AutoCAD/MathCAD
- Technical Data Packages (TDPs)
- Hull, Mechanical, and Electrical (HM&E) Sail System support
- Engineering Change Proposals
- Engineering Change Requests (ECRs)
- Engineering Changes (ECs)
Circuit Board Design

- Hardware
  - Circuit Designs (Analog, Digital, Mixed Technologies, Micro-Controller Based)
  - Printed Wiring Board Design and Prototyping
  - Cadence Allegro Development Software
  - FPGA Designs (Actel, VHDL, etc.)
  - Specialized Computer System Design and Manufacturing

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Fabrication/Assembly

- **Circuit Card Assemblies (CCA)**
  - Prototype and Limited Production in House
  - Full Production Capabilities
  - Surface Mount and Thru Hole Capabilities

- **CCA Software/Hardware Integration**
  - Software Design
  - Test Plans (Hardware/Software)

- **Test Fixtures**
  - Board Level Test Fixtures
  - System Level Test Stations

- **Unit Assemblies**
  - Cable Assemblies
  - Wiring Harnesses
  - Unit Assemblies

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Information Assurance (IA) and Certifications

- Information Assurance (IA)
  - Certifications:
    - Certified Information Systems Security Professionals (CISSP)
    - Microsoft MCSA/MCSE: Security
    - Comptia A+ and Security +
    - Comptia Linux +
    - Cisco CCNA
  - Trusted Agent
    - Conduct scans and develop ATO Messages
Digital Design

- Creative Digital Solutions
  - Virtual World design and development
  - Art design and direction
  - Animation and gaming

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Software

- Requirements Analysis
- Graphical User Interface (GUI) design and development
- Object oriented programming techniques
- State-of-the-art technology development tools utilized

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3-D Modeling and Design

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Field Services

- Alteration Installation Team (AIT)
  - NAVSEA Code 04XQ approved
    - Technical Data Package (TDP) development
    - Rip-out and Installation
    - Cable manufacturing and refurbishment
    - Shipboard rack manufacturing, refurbishment, installation, and hardware mounting(s)
    - RMMCO Interface
    - Inventory and Material Management

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Field Service Support

Installations:
- Alteration Installation Team Leaders
- Fabrication, laboratory and ship board testing, installation and removal of Tactical Temporary Alterations (TEMPALTs)
- Draft and conduct PICO and SOVT testing on Submarine ES Suites
- Conduct certification training
- Support test events (FOT&E, OT&E, OTRR)
System Engineering and Management

- Processes
  - Requirements Analysis & Management Support
  - Technical Planning and Assessment
  - Decision Analysis
  - CM & Data Management
  - Risk Management Support
  - System Integration
  - Program Schedule and Planning
  - Test and Evaluation

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System Engineering and Management (cont.)

- Program Documentation
  - CDD, Specification Development
  - AoA, BCA Development
  - Program Review Support (PDR, CDR, PRR, TRR)
  - Logistic Assessments
  - Maintenance Documents
  - QA/QC Support
  - System Safety/Hazardous Material Analysis

- IA Support
- PESHE Development
- Test Plans & Procedures
- System Testing and Analysis
- Drawings and Interface Documentation
- UID Planning
- RMA Analysis
- TEMP Development
- DT/OT Support
Test and Evaluation:

- Conduct antenna characterization
- Perform Dockside and Operational tests
- Design signal simulations and shore side signal testing platforms
- Outfit and operate various unique self contained mobile test platforms (shipboard and land based)
- Support to AUTEC, Fishers Island and other test sites

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Test and Evaluation

- Radar vulnerability studies using commercially developed and specialized function radars
- Pre and Post Overhaul Testing
- Systems Acceptance Testing
- First Article/Factory Acceptance Testing Support

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RDSI Products

Electronic Warfare Training Simulators and Stimulators

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RDSI Products

- **Hardware Systems**
  - Multi-Purpose Reconfigurable Training System for EW Support (MRTS–ES)
  - Electronic Warfare Training Systems
    - Surface Ship EW Trainer (SSEWT)
    - EWTS–32SRS (ALQ–99) (EA–6B Weapons System)
    - Battle Force Electronic Warfare Trainer (BEWT) AN/USQ–T47(V)
    - EWTS–8i
    - EWTS–( )R
RDSI Multi-Purpose Reconfigurable Training System for EW Support (MRTS–ES)

MRTS–ES with emulations of ES suites for AN/BLQ–10(V) and AN/WLR–8(V) equipped Submarines

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RDSI Products

- **Hardware**
  - M/Pulse™ Card (Electromagnetic Emission Generator CCA)
  - PCDXsi (Data Extract CCA)

- **Software**
  - EWPro™
  - SIGREC™
RDSI….

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