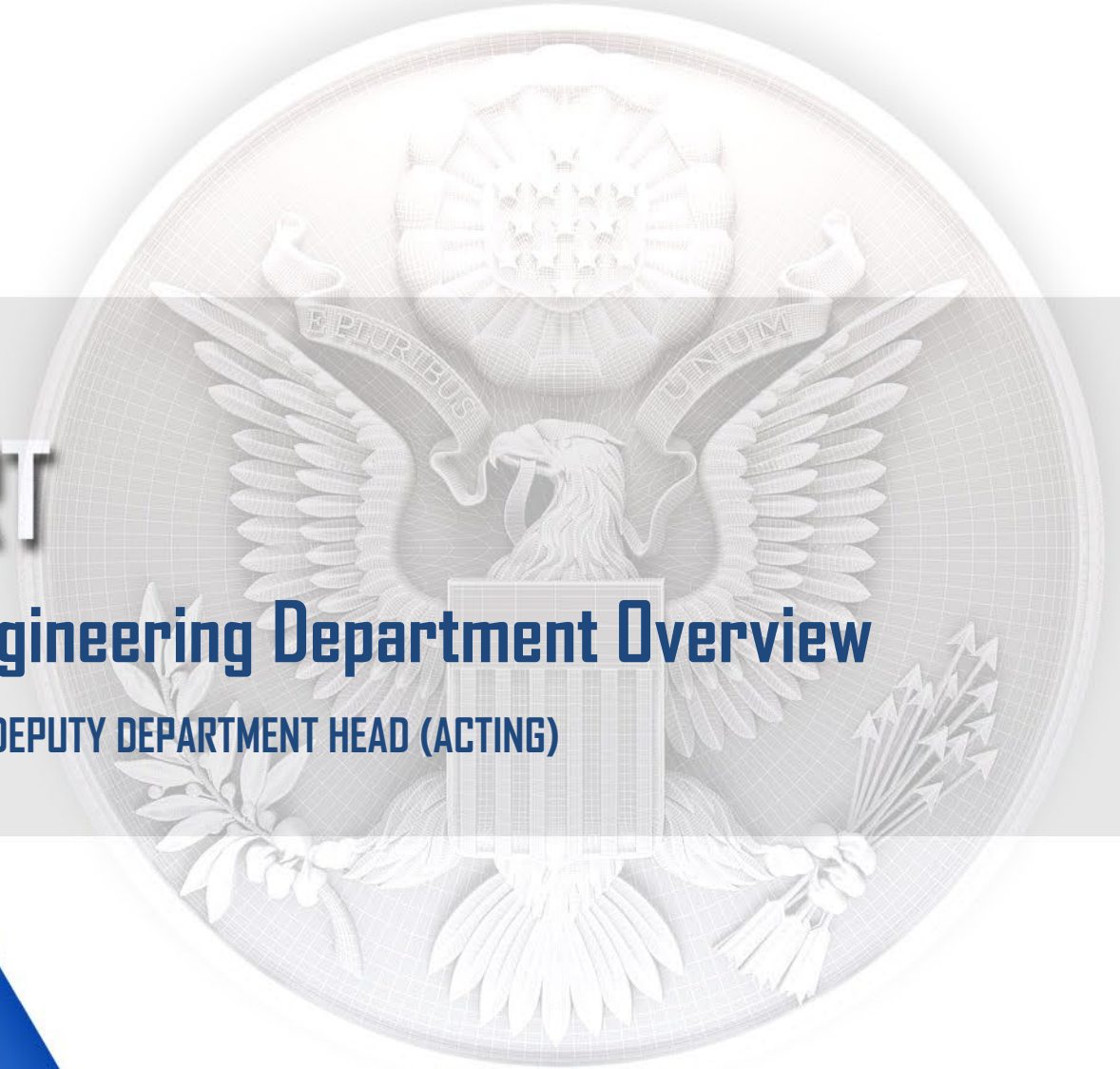


# NUWC DIVISION, KEYPORT

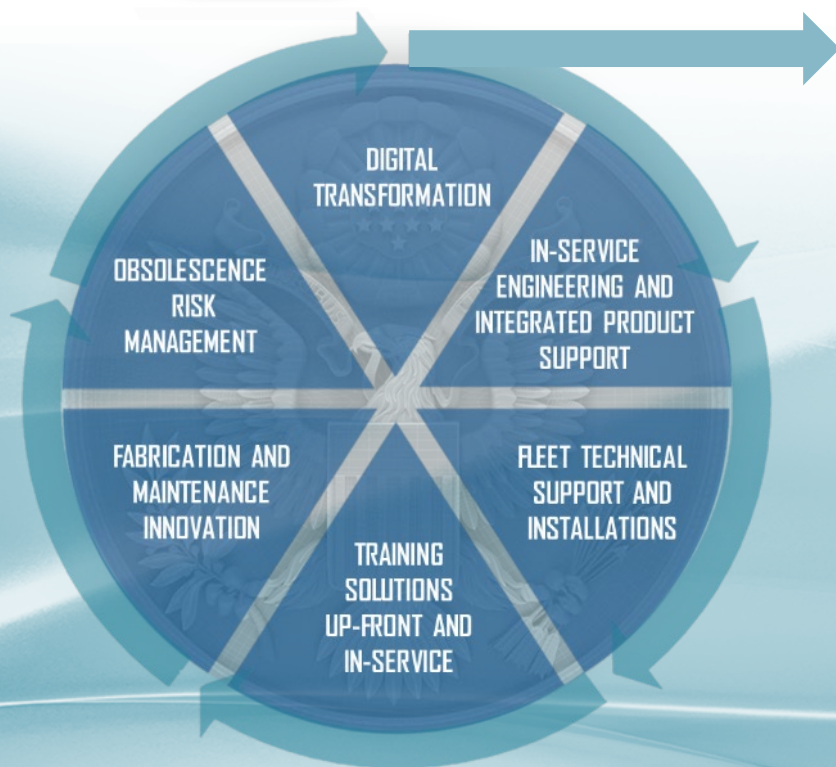
## Undersea Systems & Sustainment Engineering Department Overview

MR. DAVID COLEMAN, DEPARTMENT HEAD / MR. JASON VOELTZ, DEPUTY DEPARTMENT HEAD (ACTING)



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# Undersea Systems & Sustainment Engineering



## SAILORS



- Front End Analysis for Manpower
- Personnel Training
- Training Material Design and Development
- State of the Art Technology Delivery
- Training Data Warehousing and Analysis

## SYSTEMS



- In Service Engineering
- Obsolescence Risk Management
- Data Management and Science – Visualization, Analysis Forecasting
- Maintenance and Material Solutions

## PLATFORMS



- Procurement and Installation
- Waterfront Technical Support
- Maintenance Technology Development and Deployment

# READINESS

*Mission: We develop, field, and sustain innovative solutions optimizing Warfighter readiness and effectiveness*  
*Vision: Transform capability, creating a self-sustaining Fleet to maximize Warfighter dominance at sea*



## Seaport Service Contracts

### N00178-19-D-7705 In-Service Engineering (ISE)/Integrated Logistics Support (ILS) Support Services

Logistics and engineering support across the NUWC Division, Keyport

Awarded: 18 March 2024 / Concludes: 17 March 2029

Ghostrock Systems Development, LLC

Base Year Plus 4 option years, CPIF

There will be a recompet

### N00178-19-D-7406 Alteration Installation Team (AIT) Support Services

Installation and fabrication services on surface and subsurface platforms at Shipyards and key fleet concentration areas within the Continental U.S. (CONUS) and Outside the Continental U.S. (OCONUS)

Awarded: 14 July 2020 / Concludes: 13 July 2025

Continental Tide

Base Year Plus 4 options years

Solicitation in process (at the time brief developed)

### N00178-19-D-8173 Technology Support Services (TSS)

Software development and maintenance

Award: 30 Nov 2021 / Scheduled Conclusion: 29 Nov 2025

Netsimco

Base Year Plus 3 option years, LOE

Solicitation in process

## Contracts Supporting 2M/MTR

### N00178-19-D-7599-N6660422F3006 In-Service Engineering (ISE)/Technical Support Services

Engineering and logistics support for the NUWC Division, Keyport, Code 452 Miniature Microminiature/Module Test and Repair (2M/MTR) ISEA

Awarded: 1 February 2022 / Concludes: 31 January 2027

Engineering Services Network, Inc.

Base Year Plus 4 option years, CPFF

Recompete in progress

### N00164-22-D-JM43 Material Indefinite Delivery, Indefinite Quantity (IDIQ)

2M equipment, tools, and material for 2M/MTR training & repair sites

Awarded: 16 February 2022 / Concludes: 15 February 2027

Linsun Industrial Group, LLC

Base Year Plus 4 option years, FFP

Recompete in progress

### N00164-23-D-JM47 Material Indefinite Delivery, Indefinite Quantity (IDIQ)

2M training and certification material and related supplies for 2M/MTR training and inspector sites

Awarded: 13 April 2023 / Concludes: 12 April 2028

Practical Components, Inc.

Base Year Plus 4 option years, FFP

There will be a recompete

## Undersea Warfare (USW) Systems Engineering

### Electronic Acquisition and Sensors Production

**Technology Insertion Hardware (TIH) 16/18 (N0025314D0004), TIH 20/22/24 (N0025319D0004) and TIH 26 (N0025324D5001)**

Production contracts for design and manufacture of display, workstation, processor, and network systems that provide computer processing and memory, data storage and extraction, and input/output interfaces to support specific software applications of Navy Combat Control and Sonar Systems.

***Future: TIH 28/30/32***

New TIH contract for submarine SONAR and Fire Control Support upgrades/new construction.

### Acoustic Device, Countermeasure (ADC)

**ADC MK 3/4 (N0025318C006) and ADC MK 2 (N0025322D0002)**

Acoustic Countermeasures protect the submarine fleet from acoustic-homing torpedoes. Both 3-inch and 6-inch variants are produced.

### **Hardware Design and Development NAVSEA**

#### **Contracts:**

In production: ADC MK 2 MOD 7, ADC MK 2 MOD 6, ADC MK 2 MOD 8/9, ADC MK 3 MOD 1, ADC MK 4 MOD 1

In development: ADC MK 5 MOD 0





## **Other NUWC Keyport SeaPort Service Contracts Leveraged**

- Engineering Support Services (ESS)
- Business and Administrative Services Support (BASS)
- Hawaii Support Services
- Industrial Support Service (ISS)

## **Contracts Leveraged Outside of NUWC Keyport**

- DLA Tailored Logistics Support
- NASA SEWP

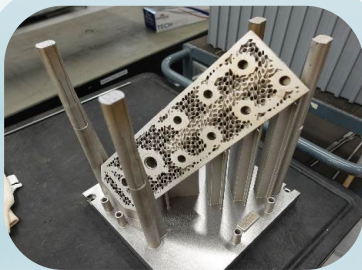
## Digital Transformation

### Primary Tasking/Major Services Desired

- **Artificial Intelligence (AI) and Machine Learning (ML)**
- **Game Design (Unity Development/Computer Graphics)**
- Graphic Design
- Cloud Hosting & Migration Architecture/Engineering/Development
- Data Analytics and Data Management
- Systems Engineering
- Software Engineering/Development/Testing
- Computer Engineering
- IT (Sys Admin/DBA) & Cyber Support
- Training Analysis/Instructional System Design

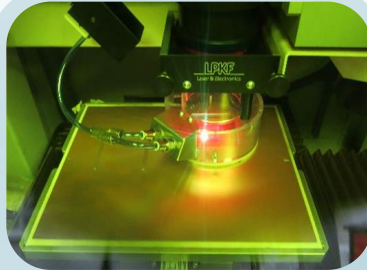


## Rapid Prototyping and Fabrication Technology



### Advanced Manufacturing and Reverse Engineering

- 5-Axis Machining
- Additive Manufacturing
- 3D Photogrammetry
- Hybrid Prototyping
- Obsolescence
- Modernization



### Electronic Repair and Manufacturing

- Circuit Card Design & Manufacturing
- PCB Prototype Fabrication
- Reverse Engineering (X-ray & CT Scans)
- Obsolescence
- Mounting New Components into Obsolete Package Sizes (ARIC)
- Develop Test Fixtures (LabView)



### Robotics / Automation / Additive Repair

- Articulated Industrial Arms
- Test Equipment (Hydro)
- Laser Directed Energy Deposition (DED)
- Cold Spray
- Plasma/Thermal Spray



### Coating Removal / Surface Preparation

- Laser Ablation
- Atmospheric Plasma Blast



### In-Situ Shipboard Repairs & NDT / Inspections

- Custom Robotics / CNC
- Non-Destructive Testing (NDT) Inspections
- Portable Repair Kits
- Tooling or Fixtures
- Machine Vision
- Mobile Platforms

Production Capabilities: Advanced Machining; Welding; Encapsulated Cables; Coatings; Electronic Circuits and Cables; Metal Finishing

Material Procurements: Relays, potting compound, accelerometer housing, gaskets, connectors etc.

Services: Troubleshoot and repair, calibration, equipment maintenance and technical support