



ADVANCED TECHNOLOGY. RELIABLE RESULTS.

New Era technologies, LLC

CAPABILITIES STATEMENT

Cage code: 8gtv9 | Duns 117301266



About New Era

New Era Technologies, LLC (NET) was established in 2019, and is in Huntsville, AL. NET specializes in Model & Simulation (M&S). We have provided our quality services to various Department of Defense (DoD) agencies for approximately 10 years. Our company expertise originates from years of “hands-on” experience with the Ballistic Missile Defense System (BMDS) Hardware-in-the-Loop (HWIL) sensors (AN/TPY2, SBX, CDU, and UEWR). NET’s services consist of but are not limited to performing detailed analysis on LRID data, creating & executing Ground Test (GT) HWIL scenarios, and performing system integration of the Radar Digital Signal Injection System (RDSIS)/Open-System Architecture Signal Injector (OSI).

CORE COMPETENCIES

New Era Technologies provides its customers with the necessary resources needed to fulfill all their technical objectives related to the following:

- HARDWARE-IN-THE-LOOP (HWIL) SIMULATION
- RADAR ENGINEERING & ANALYSIS
- SYSTEM ENGINEERING & INTEGRATION
- MODEL & SIMULATION VERIFICATION, VALIDATION, AND ACCREDITATION (VV&A)

NAICS CODES

- 541330 - Engineering Services
- 541511 - Custom Computer Programming Services
- 541512 - Computer Systems Design Services
- 541619 - Other Computer Related Services
- 541690 - Other Scientific and Technical Consulting Services
- 541715 - Research and Development in the Physics, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)

DIFFERENTIATORS

- 10+ years professional experience
- Direct experience working with all the BMDS sensors
- Experience performing Verification, Validation, and Accreditation (VV&A) on target and environmental models
- Working knowledge of both signal injectors (RDSIS/OSI).
- Multiple awards for our work in GT events

COMPANY INFORMATION

Business POC: Colby D. Wellington

Phone: (256) 655 - 7223

Location: Harvest, Alabama 35749

Work Area: United States

Socio-Economic Status: Minority-Owned Small Business / Self Certified Small Disadvantaged

PAST EXPERIENCE

- Designed a Radar Cross Section (RCS) sensitivity study to establish Verification and Validation (V&V) Performance Parameters (PPs) and Acceptability Criteria (ACs) for Wideband discrimination.
- Performed Verification, Validation, and Accreditation (VV&A) on the Core Truth Models (CTM's) currently being utilized in Objective Simulation Framework (OSF).
 - To mitigate the risk of accrediting CTMs that are generating incorrect data.
- Developed MATLAB/Python tools to extract track and discrimination LRID data for the AN/TPY2 and SBX HWILs.
- Integrated the Open-System Architecture Signal Injector (OSI) with the AN/TPY2 and SBX sensors respectively.
- Created Radar Digital Signal Injection System (RDSIS) HWIL input files mapping trajectories to their corresponding Radar Cross Section (RCS) files.
- Executed integration, dry, and runs-for-record (RFR) GT HWIL simulation runs.
- Operated the Single Simulation Framework (SSF) during integrated GT events.
- Designed and executed HWIL Ground Test (GT) scenarios for the AN/TPY2, SBX, CDU, and UEWR sensors.
- Analyzed radar data and documented the results of the analysis in PowerPoint Presentations.
 - The PowerPoint Presentations were then briefed to leadership.
- Successfully completed GT events and transferred deliverables to the customer on time and within budget.