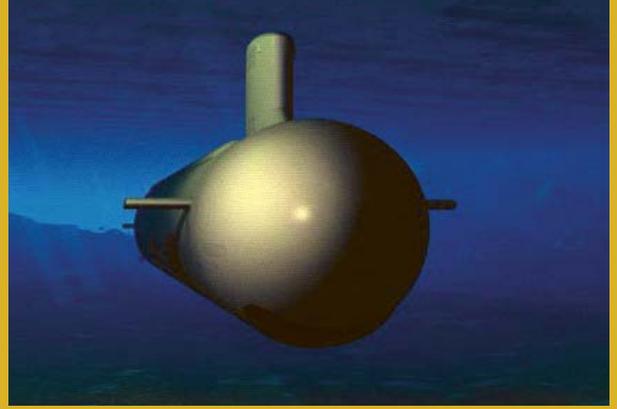




PROGENY SYSTEMS CORPORATION

SUBMARINE TECHNOLOGY INSERTION FOR COTS-BASED SYSTEMS



Submarine Technology Intersection

38

Topic Number: N96-278
(NAVSEA)

SBIR Investment: \$850K
Project Revenue: \$130M

Progeny Systems Corporation

9500 Innovation Drive
Manassas, VA 20110
(703) 368-6107
www.progeny.net
wkitonis@progeny.net
Walter Kitonis

About the Technology

Many of today's weapons systems are obsolete and cannot support the changes needed to adapt to new threats. Solutions to obsolescence typically involve replacing rather than modifying the existing system, which is an expensive option. Newer, high-density systems can be reasonably migrated to higher performance, like-technology components as long as the base architectures have not changed. Moreover, if discipline is applied to the design and development process, the anticipated migration effort, even for systems that differ architecturally, can be minimized significantly.

Progeny Systems has developed a prototype environment and method for facilitating commercial off-the-shelf technology infusion into embedded computer systems, by providing open architecture infrastructure components, infusion assessment and management tools, strategies, and methodologies for creating resilient system designs.

Progeny has applied its technology to the Program Executive Office (PEO) SUBS, in a number of systems and architectures, such as non-tactical data processing and system automation software that supports reduced manning onboard submarines, upgraded torpedo electronics for improved performance and reduced cost, submarine weapon simulators, and information assurance products for the management of classified data.

Military and Commercial Significance

Progeny Systems' technology insertion designs and methodologies have helped to significantly drive down overall cost of combat system upgrades, while reducing life-cycle costs, improving both reliability and availability, increasing capabilities, and improving the entire quality of the system. Progeny Systems' approach to technology insertion makes future technology upgrades easier and less costly than replacing obsolete combat systems.

About the Company

Since its incorporation in 1995, Progeny Systems Corporation has provided high quality engineering services to the Navy, Air Force, Army, DARPA, and corporate customers. Since August of 1996, when the Naval Sea Systems Command awarded Progeny Systems its first SBIR contract, Progeny Systems has received numerous SBIR contracts, many of which have involved leveraging commercial technologies into special customer applications, reducing life cycle cost, and improving system performance. Progeny Systems attributes a significant portion of its growth, of more than 300 employees and 2006 revenues of \$60 million, to the Navy SBIR program.

APPLICATIONS

- NAVSEA: PEO SUBS Submarine sonar systems
- NAVSEA: PEO SUBS Virginia Class submarine electronics
- System automation for reduced manning on-board submarines
- Non-tactical data processing, torpedo electronics, weapon simulators