

Paramount and Raytheon: A Productive Team in Defense Technology

Throughout our history, we at Paramount have prided ourselves on providing high-quality, expert and innovative product development services to our customers. Along the way, we have survived economic downturns and changing patterns of industry needs, while always investing in new technology to assure that we are on the leading edge of advances.

Nowhere has the need for high standards and technology aptitude been more evident than in the defense sector, where advanced systems require unerring levels of quality and the successful application of new materials to meet stringent requirements in durability and precision.

Thus it was with particular pride that we at Paramount rejoiced in being cited for exemplary performance by Raytheon, Inc., honoring our achievements in digital rapid manufacturing of key components for an advanced mine-hunting sonar system.

Paramount was one of only eight companies selected by Raytheon for Supplier Excellence Awards, for our work in producing components for their landmark AQS-20 system, now in use by the U.S. Navy.

The AQS-20A system incorporates five separate sonar systems in a compact, lightweight and hydrodynamically stable vehicle that can be towed from a helicopter or deployed as an unmanned vehicle. Raytheon produces this advanced-technology system for the U.S. Navy.

Paramount's technical challenge was to develop a rapid manufacturing process and material capable of achieving certification for withstanding the demands of an underwater environment and successfully produce the specialized fairings to precise specifications in an on-demand digital rapid manufacturing mode.

On-demand digital rapid manufacturing is an emerging technology that produces chemical-resistant and robust thermo-plastic components direct from 3D-CAD solid model input, thus dispensing with the need for costly and time-consuming tooling. The technology is well-suited to a variety of applications where relatively small quantities of thermo-plastic components are required.

Our experience with Raytheon symbolizes a long history of success in serving the needs of leading defense and aerospace contractors. Indeed, Paramount's skills in rapid product development and rapid manufacturing can be critical elements in the cost-efficient production of components for leading-edge systems to enhance our nation's defense and security preparedness.

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