

CodaOctopus COLMEK

the past, the present, the future



For more than a quarter century, Colmek has been solving system critical problems for the worlds leading defense, research and exploration companies. Our designs and systems have proven steadfast and effective in multiple military and commercial applications where rugged-reliability under extreme operational conditions is paramount and lives depend on accurate and precise information. Whether it be off the Interstate or the Intercontinental shelf, we provide cost effective and timely solutions for every technical need.

At Colmek, we are proud of our Track Record. With a successful Past, an active Present and exciting Future, we look forward to earning your business.

northrup grumman 1997 to present

Colmek developed Laser and side-scan Sonar data integration, processing, display, and recording functionality to improve the performance of the AN/AQS14A(V1), Helicopter-Towed Mine Hunting System, used by the U.S. Navy on MH-53 Sea Stallion Helicopters. The system processes and records sonar data on-board the aircraft received from a towed 32-channel sidescan Sonar tow-fish with an integrated bottom scanning laser assembly. The system operates on a VxWorks/PowerPC platform providing multiple data presentation options and enhanced networking functions.

westinghouse 1990 to 1997

New data acquisition, display and storage systems, developed by Colmek for the AN/AQS14A Mine Hunting Sonar system, are used by the U.S. Navy to locate and identify water-based antiship mine threats. The systems process data from a 16-channel side-scan Sonar and incorporate various computer aided detection algorithms to locate mines prior to proximity contact with a Naval Battle Group.

lockheed martin 1981 to present

Colmek was instrumental in redesigning and packaging the power supplies, processors and telemetry systems on the unmanned, autonomous, Remote Mine hunting System (RMS) for extended remote control operational capabilities and mission duration.

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raytheon 1988 to present

Multiplexer systems that Colmek designed and produced are used in the AN/SLQ 32 and 48 remote mine neutralization vehicles. This system is currently being upgraded and retrofitted with a fiber-optic telemetry network also designed and produced by Colmek.

woods hole oceanic institute 1985 to present

Colmek's advanced telemetry systems, used on the Jason and ARGO exploration vehicles, were instrumental in the discovery of the Titanic and German battleship Bismark.

lockheed martin 1981 to present

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benthos 1986 to present

A miniature multiplexer system developed by Colmek effectively increased the working depth of the Benthos Mini-Rover Remotely Operated Vehicle from shallow to mid level ocean depths.

kline & associates 1988 to present

Colmek developed a mux that extends the operational levels of various Kline model sonar tow-fish to deep ocean levels for more accurate object identification and contour mapping.

unisys (I3 communications) 1987 to present

Colmek designed and later enhanced an altitude display system for towed ocean Sonar arrays.

nauticos corporation 1995 to present

Colmek serves as a technology resource partner in Nauticos exploration projects worldwide. Nauticos successfully located the downed Israeli submarine Dakaar, leading to the subsequent recovery of the ship's sail. Nauticos is currently conducting an active sonar search for the Amelia Earhart plane in the Pacific Ocean.

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emtek technologies 2002 to present

A complete hardware suite for use onboard a pipeline inspection vehicle was designed and manufactured by Colmek for Emtek. The system uses a high-intensity electro-magnetic field to identify internal corrosion and defects in the pipe wall and joints. Colmek continues to design PC software packages for post mission analysis. A variety of pipeline vehicles have been planned for use in all sizes of liquid and gas transfer pipe systems. These inspection vehicles and systems integrate the latest in PC/104+ board design and incorporate custom board design with commercially available processors.

ENGINEERING SERVICES

- Technical feasibility studies
 - Prototype development
- Legacy system technology upgrades
 - Research and design
- Sonar, Laser, optical, and 3D imaging
- Data retrieval, display, telemetry and storage
 - Hardware ruggedization
 - Harsh environment engineering
- VME, PC/104+, PCI, ISA board design