

JAMES B. NEWMAN

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SUMMARY:

Ocean Engineer with extensive experience developing and operating Remotely Operated Vehicles (ROVs) and other underwater systems for scientific applications, particularly archaeological investigations.

Adjunct Professor of Ocean Engineering at the University of Rhode Island, responsible for developing and teaching a graduate-level course in ROV Design.

EMPLOYMENT:

Woods Hole Marine Systems Inc., Woods Hole, MA (www.whmsi.com)

1996 - present President and Chief Engineer;

- Major participant in refurbishment and sea trials of a 6000 meter ROV system for NOAA's Office of Ocean Exploration (2010-2013).
- Led development and operation of vehicle systems for the Institute for Exploration (Mystic, CT), including the 4000 meter ROVs *Hercules* and *Little Hercules*, the towed *ARGUS*, a shallow water ROV and a deep-towed sidescan sonar system (1998-2010).
- Responsible for acquisition and conversion of a 64 meter research/exploration vessel, the *E/V Nautilus*, for the Ocean Exploration Trust (2008-2010).

Other past and current clients include IFREMER (French National Oceans Agency), Woods Hole Oceanographic Institution, Hydroid, University of Victoria (NEPTUNE Canada), and the University of Rhode Island.

Monterey Bay Aquarium Research Institute, Moss Landing, CA (www.mbari.org)

1989 - 1996 Oceanographic Engineer;

- Project Leader for development of *Tiburón*, a 4000 meter ROV.

Woods Hole Oceanographic Institution, Woods Hole, MA (www.whoi.edu)

1986 - 1989 Research Engineer, Deep Submergence Laboratory;

- Responsible for development and deployment of the software and computer hardware and sensor systems for the *JASON* and *JASON Junior* ROVs, which were designed for research and exploration to 6000 meters.
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EDUCATION:

Massachusetts Institute of Technology

- S.M., Ocean Engineering, January 1986.
 - S.B., Ocean Engineering, January 1981.
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SKILLS/EXPERTISE:

- Extensive experience with development and at-sea deployment of ROVs and instrumentation in support of oceanography and archaeology.
 - Ability to define system architectures and delve into a wide range of technical areas
 - Management and planning of complex technical projects
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OTHER:

- Proposal reviewer, Dept. of Energy, Marine Hydrokinetics, June-July 2013
 - Reviewer of journal articles for Deep Sea Research, Marine Technology Society, Methods in Oceanography
 - Invited presenter for the National Academies "Future Needs in Submergence Science" committee, June 2003
 - Only non-French member of the Review Committee for IFREMER's VICTOR ROV system development, 1995-1996.
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OTHER:

- Adjunct Faculty, University of Rhode Island Department of Ocean Engineering, 2004-present; teaching OCE 591 "ROV Design".
- Chief Engineer, Institute For Exploration, 2000-2010
- Guest Investigator, Woods Hole Oceanographic Institution, 2003-2004
- USCG Licensed Master, 50 Ton