

James E Halwachs, P.E.

6005 Barr Road
Ferndale, Washington 98248

Home: 360-312-0573
Mobile: 360-961-6343
e-mail: jhalwachs@msn.com

PROFILE

Senior Program manager and experienced Ocean/Marine/Civil Engineer specializing in development of unique hardware systems and execution of strategies for success in advanced technology-based practices. More than 45 years of successful technical, operational, and program development as well as business management in private and Government sectors.

Areas of specific expertise include major program and project development and management; conceptual design and direction of detailed design, fabrication, integration, test, and systems safety certification of complex manned hyperbaric and 1 ATM deep diving systems and unmanned remotely operated deep diving subsea intervention systems and their deployment and handling systems. Focus areas included ocean, marine, mechanical, civil and environmental engineering; industrial activity management; diving and underwater inspection and construction; non-destructive test and manned system safety certification and quality assurance; Navy nuclear ship and submarine repair and modernization, and tailored overarching quality systems program development, implementation, and improvement.

Performance characteristics include engaged leadership style with emphasis on personnel development; promoting process improvement and effectiveness monitoring; interactive client interface; problem solving by integration of owner, client, regulatory agency, and other stakeholder requirements and interests. Consistently exceeds performance expectations through a combination of successful technical, analytical and managerial expertise, effectual team selection and leadership, and effective cooperative communication skills.

Progression of experience after graduating from the United States Naval Academy includes completion of twenty years of active duty as a Civil Engineer Corps Ocean Facilities Officer and Engineering Duty Officer qualified in submarines and diving. Subsequent experience is highlighted by more than thirty years of commercial practice engaged in activities associated with the business of manned and unmanned complex hardware systems design and fabrication for subsea work and science and in support of space exploration.

Satisfied clients include: US Navy, NASA, Canadian Navy, Royal Australian Navy, Southwest Research Institute, Lockheed-Martin, and Booz-Allen & Hamilton, Inc.

RELEVANT EXPERIENCE

Business Management

- Manager, Quality Systems and Senior Program Manager, Oceanworks International Inc, a 120 employee, \$25 M/yr industry-leading supplier of specialized subsea products
- Manager, Technical Program Development and Special Projects, Johnson Engineering Corp, a \$45 M/yr NASA technical support firm for the Flight Crew Support Division
- Branch Manager and Senior Engineer, Booz-Allen & Hamilton, Inc. a \$1 billion/yr firm
- President and CEO, International Marine Inc, a \$1 M/yr marine-engineering corporation
- Chief Executive Officer (Commanding Officer) of the Navy Experimental Diving Unit, the Navy's premier diving RDT&E activity

Industrial Activity Management

- Submarine Repair Division Head for the Production Department at a 12,000 employee public shipyard for three years. Developed and implemented production control and project management improvement programs along with design, fabrication, and test quality certification procedures, thereby increasing the nuclear submarine repair capacity of a predominantly surface ship overhaul facility from one or two submarines per year to eight in a period of less than two years. Successfully negotiated resolution of union related issues concerning exposure to hazardous materials.
- Nuclear submarine overhaul project manager (Senior Ship Superintendent) at a large public shipyard for four years. Personally managed the successful completion of a \$110 million repair and modernization project on an aging nuclear submarine and assisted on two other nuclear submarine overhaul projects of similar scope.

Civil/Mechanical/Ocean Engineering, Quality Systems and Project Management

- Forty-five+ years of progressive engineering, management, and executive level experience in Ocean, Marine, Mechanical, and Civil Engineering and related technologies
- Forty-five years of successful experience with achieving manned system safety certification of manned hyperbaric systems under Naval Sea Systems Command's Systems Safety Certification Program
- Field Engineer and assistant PM for the finish machining and welding, assembly and hydrostatic test of the 3-in thick titanium pressure hull for the new Alvin deep diving manned submersible completed in 2012.
- Program Manager, responsible for design, fabrication, testing, certification and delivery of the new generation \$90M US Navy Submarine Rescue System completed in 2007
- Quality System Manager for OceanWorks International, achieving ISO 9000/9001 first time registration and development and implementation of a rigorous Quality demonstration system for design, manufacturing and test quality verification in support of US Navy Deep Submergence Systems Safety Certification requirements for two complex manned deep diving submersible systems
- Project Manager, responsible for design, fabrication and installation of a \$3M reliability, maintainability, and operability upgrade to the Oxygen-enriched mixed gas breathing system for use in astronaut weightless training at NASA's Johnson Space Center completed in 1998
- Project Manager for a large scale \$1.5M privately funded marine archeological salvage project involving complex state and federal oversight. Completed Spring 1994
- Designed and supervised the construction of a \$1.5 million, 10 million gallon shallow water explosives test facility for the U.S. Navy at Eglin Air Force Base, Florida in 1993
- Managed the contract administration and inspection of more than three hundred government construction contracts worth \$20 million over a 2 year period
- Seven years experience in facilities master planning and construction management, disaster preparedness planning, mechanical systems operation and maintenance management, and MIS (management information system) tailoring and implementation

Human Resource and Business Development

- Strong technology base with proven communications and leadership skills resulting in highly productive relationships with clients, unions, regulating agencies, customers, employees and the community
- Well documented successful history of managing for and achieving results while increasing employee job satisfaction and productivity
- Developed and implemented information management systems for industrial process budgeting, cost and schedule, quality control, construction contract administration, and project execution that met all client requirements
- Polished public speaker with both large and small audience, and media experience

EDUCATION

M.S., Civil (Ocean) Engineering, 1976. University of Washington.

B.S., Ocean Engineering, 1972. Trident Scholar. U.S. Naval Academy.

Special Courses and Service Schools for Specific Qualifications:

- Engineering Duty Officer Qualified in Submarines
- Nuclear Ship Repair Superintendent
- Construction Contract Administration
- Ship Salvage and Diving, Mixed Gas Diving, Saturation Diving (Officer, US Navy)
- Space flight hardware design and operational considerations for maximizing human safety

REGISTRATIONS, CERTIFICATIONS, LICENSES

- Registered Professional Engineer in Florida, active since 1978
- United States Coast Guard licensed Master – 100 ton, near coastal
- Security Clearance: Top Secret (SBI), May 1989 (expired)
Secret (NAC), March 1995

REFERENCES

- Available on request