

Nathan A. Russo
5724 Kings Graves Rd.
Fowler, OH 44418
(330) 553-0190
NathanARusso@hotmail.com

PROFILE

Hands-on Naval Architect/ Marine Engineer. Expert user of MakaiLay cable -laying software, Pro/Engineer Solid Modeling, Excel, Word and PowerPoint. At-sea experience. Familiar with Visual Basic, AutoCAD, FEA, and ship hydrostatics and dynamics software. Creative problem solver. Proficient in Spanish.

PROFESSIONAL EXPERIENCE

Makai Ocean Engineering, Kailua, HI – Offshore Support Engineer March 2001 – Present
Operated and instructed people on the use of proprietary cable -laying software, which utilizes a real-time, finite-segment cable model to determine the current touch-down conditions of the cable on the sea floor as it is being laid. Worked as the sole representative of Makai onboard ships for up to four months at a time and as such was self managed and extremely flexible. Extensive world travel.

Raytheon Electronic Systems, Portsmouth, RI - Mechanical Engineer March 1999 – March 2001
Refined the hydrodynamic model of the AQS-20 towed mine hunter using DYNTOCABS finite-segment program. Packaged the new power supply in the AQS-20X. Acted as a liaison between Raytheon and the hydrodynamicists on the AQS-20 mine hunting system. Designed a handle to lift/position the Advanced Low-Frequency Sonar (ALFS) reel. Compiled and presented a seminar discussing the conversion of Pro/E files for use in ANSYS. Designed a mounting bracket for the Littoral Sea Mine (LSM) transmitter card.

Vibtech Inc., North Kingstown, RI - Naval Architect/Marine Engineer October 1998 – March 1999
Performed structural analysis project for the USCG Ship Structure Committee on compensation and reinforcement of deck penetrations. Solely responsible for constructing FEA models, analyzing data, and presenting material. Defined project objectives for the company and tracked progress to goals. Telecommuted; self-managed. Promoted based on strong performance as an intern.

Vibtech Inc., North Kingstown, RI - Engineering Intern January – May 1998
Researched work boat proportions to create graphical survey as an independent project. Drafted preliminary layout of over-the horizon attack craft using CAD.

Pearl Harbor Naval Shipyard, - Engineering Intern July - August 1997
Co-wrote a hydrostatics program for catamaran barges. Gained first-hand knowledge of the layout of attack submarines. Created stability-calculation spreadsheets used in the scientific department.

Naval Undersea Warfare Center, Newport, RI - Engineering Intern January - February 1997
Installed, calibrated, and de-bugged water tunnel instrumentation and data collection. Assembled, installed and tested a Particle Imaging Velocimetry (PIV) unit. Calculated resultant flow from fluid mixtures. Wrote executive summaries of drag reduction reports.

Keystone Shipping Company, SS Chilbar - Cadet January - February 1996
Assisted in the service and repair of various ship systems and components including replacing overboard discharge pumps, servicing a ballast pump, maintaining fresh water generator and repairing condenser.

Bethship Sparrows Point Yard, Sparrows Point, MD - Intern January - February 1995
Undertook independent field study of ships and ship-building equipment. Conducted time studies for the industrial engineering department management.

SPECIAL SKILLS AND ACTIVITIES

Scuba Diving: TDI Advanced Nitrox, PADI Rescue Diver, PADI Ice Diver, NACD Cave Diver, 170+ Logged dives
Boy Scouts of America: Eagle Scout with Bronze Palm

EDUCATION

Webb Institute of Naval Architecture, 1998 - BS, Naval Architecture and Marine Engineering

References available upon request