

Peter T. Obuchowski

31 Richardson Hill Road Griswold, CT 06351
(860) 376-8685 Peter@oce.uri.edu

OBJECTIVE: Ocean Engineering position in underwater vehicle design or instrumentation.

EDUCATION: **Master of Science in Ocean Engineering, Est. December 2003**
Bachelor of Science in Ocean Engineering, December 2001
Bachelor of Arts in German Language, December 2001
University of Rhode Island, Kingston, RI

Courses included:

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| Ocean Instrumentation Laboratory | Underwater Acoustics and Transducers |
| Data Collection Systems | Digital Image Processing |
| Autonomous Underwater Vehicle Design | Underwater Transducers |

EXPERIENCE: **Design Engineer, May 2002 to Present**
SubChem Systems, Inc., Jamestown, RI
Design and construct mechanical and electrical systems for real time continuous sampling underwater nutrient analyzers.

Teaching Assistant, January 2002 to May 2003
Ocean Engineering Dept., University of Rhode Island, Kingston, RI
Instructed undergraduate students in constructing Autonomous Underwater Vehicles.

Department Assistant, August 2001 to May 2003
Ocean Engineering Dept., University of Rhode Island, Kingston, RI
Duties are to test and operate laboratory equipment, troubleshoot and repair computer systems, and assist in the technical support of oceanographic test equipment.

Research Assistant, January 2000 to August 2000
Leichtweiss Institute for Hydraulic Engineering, Technical University of Braunschweig, Braunschweig, Germany
Set up, calibrated, modified, and carried out experiments at the University's wave flume test facilities.

Assistant Coordinator, January 1997 to May 2001
Learning Assistance Center, University of Rhode Island, Kingston, RI
Executive assistant to coordinator, supervised tutors, coordinated schedule and budget. Helped to define educational mission of the department.

Manager, June 1994 to September 2001
Mystic Carousel and Fun Center, Mystic, CT
Management of an entertainment complex including a pizza restaurant, coffee shop, arcade, gift shop, and carnival rides. Responsibilities included opening and closing duties, scheduling of personnel, and maintenance, operation, and repair of all equipment and facilities.

Senior Technician, March 1997 to August 1998
Alpha Omega Amusements, East Brunswick, NJ
Responsible for the maintenance and upkeep of over four hundred arcade and redemption style coin operated machines at multiple locations throughout Connecticut.

PROJECTS:**Autonomous Underwater Vehicle Design**

Designed and constructed an autonomous underwater vehicle. Control system based on a Lego Mindstorms RCX microcontroller. Programmed control system to receive input from a Hall Effect compass and pressure sensor, and to output correction factors to servomotors that controlled the steering and depth.

Water Profiler

Designed and constructed a water profiler for deep sea conditions. Based on a Tattletale microcontroller, the device measured temperature, depth, conductivity, and ambient light at incremental locations throughout the water column. It could be deployed to a maximum depth of 10,000 feet.

Acoustic Altimeter

Designed and constructed an acoustic altimeter based on a PIC microcontroller. The altimeter was designed to be configurable for use in a wide variety of applications. A version of this device was successfully implemented in an autonomous underwater vehicle for bottom mapping.

Wave Buoy Design

Repaired, redesigned, and rebuilt a single axis wave buoy. Interfaced the device's accelerometer with a Pic microcontroller to record water surface displacement. Data logging and processing were achieved using an application written in Lab View.

ACTIVITIES:

University of Rhode Island Autonomous Underwater Vehicle Team, 2002-Present

Member IEEE, 2000-Present

Reinitiated the University of Rhode Island Student Chapter of the Marine Technology Society, 2001

President of the University of Rhode Island Student Chapter of the Marine Technology Society, 2001-2002

Studied at the Technical University of Braunschweig in Germany for one year and achieved fluency in the German language, 1999-2000