

Education:

University of Rhode Island, Kingston Rhode Island

M.S Ocean Engineering, (Anticipated graduation December 2006)

B.S. Ocean Engineering, August 2005

B.S. Physics and Physical Oceanography, May 1997

Professional Experience:

Research Assistant, University of Rhode Island (BUG) (2005-Present)

Development of a fuel cell using bio-chemical reactions between Geobacter bacteria and the chemistry in anoxic pore fluids of marine sediments to harvest energy for the purpose of long term ocean instrument deployments. (An NRL and DARPA sponsored project)

Research Assistant, University of Rhode Island (SCIMPI) (2005)

Proposal development for borehole observatory to monitor deep ocean sediment properties in situ. (URI proposal for NSF funding)

Research Assistant, University of Rhode Island (1997)

DSP Processing of AVHRR satellite images for the purpose of eliminating noise from data sets for the use in atmosphere modeling and higher accuracy remote sensing techniques.

Land Surveyor, Tilton and Associates, North Attleboro MA. (1999-2005)

GPS and GIS support for engineering and mapping projects, CAD draftsman

Projects:

- Fast Ferry Proposal: Full geotechnical foundation design and armor design of a breakwater for a conceptual high speed ferry terminal at Scarborough Beach, Narragansett RI.
- Ultrasound imaging velocimetry: Investigation of Ultrasound imaging technology for the study of motion within complex mud and sediment flows.
- Hurricane cooling of Ocean SST Fields: Use of AVHRR remote sensing instruments and advanced digital signal processing software to analyze the effects hurricanes have on sea surface temperatures.
- Underwater Imaging system: development and design of a two camera optic system for the URI's AUV competition vehicle

Skills:

Software: MATLAB, C++, PIC basic, MS office, Auto CAD, Solid works, Lab View, Latex, SMS 8.1 (surface water modeling), OOPic development environment, ArcView
O-S: windows 95, 2000, XP, XP-Pro

Certifications: Marine Technical Society member, Licensed SCUBA Diver, URI AUV team member

Publications: Tender, L.M., Lowy, D., Gray, S., Tyce, R., Baxter, Flynn D., C., Leclerc, M., Book, J., Hulbert, M., Hwang, P., Walsh, D., 2005, Microbial-based Power Generation in Marine Environments, *acs, Geoc. Paper #898492 (Abstract)*

References Available upon request