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Heat, Light, and Sound Research
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Citizenship: U.S.

Security Clearance: Secret

INTERESTS:

Scientific programming with applications in seafloor geology, underwater acoustics, marine mammal acoustics, and oceanography.

EDUCATION:

Ph.D., Geological Sciences, Northwestern University, 1985
M.S., Geological Sciences, Northwestern University, 1982
B.S., Geochemistry, California Institute of Technology, 1980

RECENT EMPLOYMENT:

Senior Scientist
HLS Research
2009 – Present

- Acoustic Modeling for NOAA Underwater Sound-Field Mapping Working Group.
- Scientific Programming for Marine-Mammal acoustic modeling tool (“Simple Tool”).
- System Administrator for Heat, Light, and Sound’s servers and PC's (Windows, Linux, and Mac OS X).

Scientist
Space and Naval Warfare Systems Center Pacific
1999 – 2009

- Acoustic modeling for glider experiments, tests of unmanned bi-static/active systems, and numerous other sonar systems and hydrophone arrays including ADS and SURTASS.
- Technical liaison with Integrated Logistics Support for unmanned bi-static ASW systems.
- Studies of wide-area clearance scenarios involving active sensors.
- Array-element localization studies for numerous arrays.
- Survey Planning Working Group Lead for FDSC, which included planning, coordinating, and participating in bathymetric and side-scan surveys prior to deployment of bottom arrays.
- System Administration for UNIX, Linux, and Microsoft systems.

Programmer Analyst
Scripps Institute of Oceanography
1997 – 1998

- Software development for analysis and display of global climate predictions and seismological data.

Scientific Programmer
Institute of Marine and Coastal Sciences, Rutgers University, NJ
1992 – 1997

- Software and webpage development for
 - Analysis and display of data from oceanographic and meteorological sensors, including CTD’s, and ADCP, BASS and S4 current meters.
 - Development of diagnostic tools for oceanographic models including 2D and 3D animated displays.