

Daniel Abrams

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Objective:

Pursuing a Doctor of Philosophy in Environmental Science at Indiana University, with a research focus of Analytic Element Modeling of groundwater flow.

Professional Experience:

Electronics Technician, 05-14-2001 to 12-22-2005

Naval Surface Warfare Center (NSWC) Crane, Crane, IN

- Diagnose and repair electrical equipment for the United States Navy in an intensely compressed time schedule
- Travel frequently across the United States to perform urgent Navy requirements

Education:

Indiana University, Bloomington, IN, School of Public and Environmental Affairs

Graduated 2007, Bachelor of Science in Public Affairs

Major: Environmental Management GPA: 3.6/4.0

Ivy Tech State College, Bloomington, IN

Graduated 2002, Associate of Science

Major: Electronics Technology GPA: 4.0/4.0

Awards and Honors:

2008 Recipient: Accepted into the doctoral program for environmental science at Indiana University with full fee remission and stipend.

2006 Recipient: Indiana University County Fee Remission Scholarship honoring the 4.0 GPA earned since returning to Indiana University in Fall 2005 after a six year absence.

2005 Recipient: NSWC Crane Special Act Award for researching and implementing an upgrade which improves critical performance characteristics of the AN/USH-33(V)2 tape recorder, saving the United States Navy \$40,000 dollars/year in repair costs.

2005 Recipient: NSWC Crane On-The-Spot Award for repairing 6 RD-358A recorders aboard the USS Hopper in a compressed timeframe with a team of five professionals.

2002 and 2004 Recipient: NSWC Crane Top Performer, annually voted on by peers for the four employees who best exhibit hard work, leadership, skill, and conscientiousness.

1997 Recipient: Valedictorian, Eastern Greene High School.

Academic Achievements and Skills:

Experience with analytic element modeling of groundwater flow in 2 or 3 dimensions.

Experience with hand calculations to verify modeling results.

Proficient at performing spatial analysis with ArcGIS 9.2 and Imagine 7.0. Experience with collecting field data for use with supervised classifications.

Proficient at conducting a Rapid Bioassessment, per the Environmental Protection Agency's Protocol. Experience with field sampling, observational techniques, and calculation of metrics.

Proficient at identification of plankton, macroinvertebrates, and fish.

Proficient at conducting a Risk Assessment, per the Environmental Protection Agency's RAGS. Experience with hazard identification and forming a conceptual site model. Experience with toxicity assessment and the related research for No Observed Effect Levels and Slope Factors, the determination of uncertainty factors, and the calculations of Reference Doses. Experience with exposure assessment and the related calculations of chronic daily intakes. Experience with risk characterization and the related calculations of cancer risk and hazard indices. Finally, experience with qualitatively analyzing the calculated values and presenting all findings in a concise report.

Proficient at various chemical laboratory techniques: acid/base titration, spectrometry, thin layer chromatography, preparation and testing of standards, limiting reagent calculations, basic volume and mass measuring techniques, and calculations of accuracy and precision.

Proficient at limnological field collection techniques for dissolved oxygen, pH, alkalinity, nitrate, ammonia, total Kjeldahl nitrogen, transparency, photosynthetically available radiation, soluble reactive phosphorous, total phosphorous, and temperature.

Proficient at analyzing tables and graphs.

Proficient at Microsoft Office Word, Excel, and PowerPoint.

Proficient at presenting sampled data in a scientific paper. Proficient at creating graphs and tables which aid to summarize the data.

Proficient at troubleshooting, to the component level, electronic faults. Proficient at operating oscilloscopes, digital and analog meters (multi-, resistance, voltage, conductance), spectroscopes, and high voltage power supplies. Proficient at adjusting electronic signals, as with a potentiometer, to calibrate an electronic system.

Proficient at troubleshooting failures in a system that are not electronic faults, such as improper vacuum, physical obtrusions, or improper torque.