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# Nick Doolittle

**Research Associate**  
**Synapse Energy Economics, Inc.**  
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## PROFESSIONAL EXPERIENCE

**Synapse Energy Economics, Inc.**, Cambridge, MA. Research Associate. June 2003 - Present.  
Specialized in computer simulation modeling, analysis of electric power markets and environmental impacts, analysis of PROMOD and PROSYM runs.

**Wheaton College, Science Center**, Norton, MA. Student Manager. August 1999 – May 2003.  
Managed the Kollett Academic Computing Center. Provided ongoing training and support to faculty, Computer Technicians, and Student Assistants when solving problems with applications in MacOS and Windows.

**New Work Media**, Framingham, MA. Software Engineer. May 2002 - June 2002.  
Designed and implemented a series of programs in Perl, Javascript, mySQL, and HTML which assisted in creating and managing an array of online business surveys.

**Wheaton College, Computer Science Department**, Norton, MA. Software Engineer. June 2001 - August 2001  
Created a dynamic research tool in C++ for researchers developing new surface reconstruction methods (for 3D terrain). Designed, implemented, and tested new interpolating methods within the system.

**Wheaton College, Genomics Group**, Norton, MA. Software Engineer. January 2000.  
Assisted in creating an online motif lexicon in C++. Implemented caching and searching classes.

**Center for Talented Youth**, Saratoga Springs, NY. Teaching Assistant. June 2000 - August 2000. Taught an intensive course in basic computer science principles to students ages 12 to 16.

## COMPUTING EXPERIENCE

Computer skills include: C/C++, Java (including applets and servelets), Perl, HTML, Javascript, mySQL. Course and project experience with, data structures, operating systems, and computer graphics (OpenGL). Windows, MacOS (up to and including OS X), and Linux environments. Photoshop, iMovie2, Microsoft Office, Filemaker Pro, Apache Tomcat, Outlook Express, Dreamweaver, and several other standard Mac, Windows, and Linux applications.

Completed Henwood Energy Services “Basic PROSYM” training course. June, 2003.

## EDUCATION

**Wheaton College**, BA in Computer Science, Norton, MA, 2003

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## **RECENT PUBLICATIONS**

*A Clean Energy Plan for the Interior West*, prepared for Western Resource Advocates, with Tellus Institute, Ron Lehr and Jayson Antonoff, forthcoming.

*The 2003 Blackout: Solutions That Won't Cost a Fortune*, Electricity Journal, November 2003.

## **INVESTIGATIONS**

### **Indiana Utility Regulatory Commission (Cause No. 42718) – Ongoing**

Issues regarding PSI Energy's proposal to install \$1.4 billion in control technologies for SO<sub>2</sub>, NO<sub>x</sub> and Hg including analysis of PROVIEW modeling, emissions regulation risk, scenario planning, and equitableness of plan to ratepayers.

### **New Jersey Division of the Ratepayer Advocate (Docket No. ER01-200) – Ongoing**

Issues regarding Exelon and PSEG's merger proposal, including analysis of CASm modeling and examination of market power issues.

Resume dated April 2005.