Peter G. Lane

3120 Emerson St
Franklin Park, IL, 60131-2621
(847) 671-0380
plane1@iit.edu

EDUCATION:

Bachelor of Science, December 1998
Northern Illinois University, DeKalb, IL
Major: Computer Science

Candidate for PhD in Physics
Illinois Institute of Technology, Chicago, IL
Completed Graduate Coursework
- Analytical Mechanics
- Methods of Theoretical Physics I
- Quantum Theory I

In-Progress Graduate Coursework
- Electromagnetic Theory
- Statistical Mechanics
- Quantum Theory II

WORK EXPERIENCE:

Research Assistant, Woowon Kang, University of Chicago, Chicago, IL, June 2009-September 2009. Developed data analysis code in Igor. Performed AFM scans on experiment samples. Trained to use the machine shop.

Software Developer, Argonne National Laboratory, Argonne, IL, October 1999-January 2007. Perform application development in Java, Perl, C, and XML. Exercised lead developer role for GRAM technology.

Scientific Programmer T.A., Argonne National Laboratory, Argonne, IL, January 1999-September 1999. Performed scientific distributed application development in C++ and Java.

Undergraduate Researcher, Northern Illinois University High Performance Computing Lab., DeKalb, IL, August 1997-December 1998. Participated in the creation of distributed computing software libraries in Java. Updated example programs to utilize a more recent version of the distributed computing software library Nexus.

Intranet Development Intern, Tellabs, Lisle, IL, Summer 1998. Designed and began implementation of a Java applet-based intranet tool to manipulate product review information.

Web Development Intern, Tellabs, Lisle, IL, Summer 1997. Designed and implemented a web based system for accessing documentation over the local intranet.

SPECIAL COMPETENCE:

- Java
- Perl
- RPM
- Globus Toolkit ®
- Grid Computing
- Linux
- XML
- OpenPBS
- Web Services
- SQL/Databases

CERTIFICATIONS/ LICENSING: Amateur Extra class Amateur Radio license

AWARDS/ HONORS:

Recipient Amoco Scholarship Award.
Participant Northern Illinois University Honors Program.
Member Phi Theta Kappa, two-year college honors society.

PUBLICATIONS:

Gregor von Laszewski, Ian T. Foster, Jarek Gawor, Peter Lane: A Java commodity grid kit. Concurrency and Computation: Practice and Experience 13(8-9): 645-662 (2001)

Gregor von Laszewski, Ian T. Foster, Jarek Gawor, Peter Lane, Nell Rehn, Michael Russell: Designing Grid-based Problem Solving Environments and Portals. HICSS 2001

Gregor von Laszewski, Eric Blau, Michael Bletzinger, Jarek Gawor, Peter Lane, Stuart Martin, Michael Russell: Software, Component, and Service Deployment in Computational Grids. Component Deployment 2002: 244-256

Gregor von Laszewski, Jarek Gawor, Peter Lane, Nell Rehn, Michael Russell: Features of the Java Commodity Grid Kit. Concurrency and Computation: Practice and Experience 14(13-15): 1045-1055 (2002)

K. Keahey, M. E. Papka, Q. Peng, D. Schissel, G. Abla, T. Araki, J. Burruss, S. Feibush, P. Lane, S. Klasky, T. Leggett, D. McCune, L. Randerson: Grids for Experimental Science: The Virtual Control Room. CLADE Workshop 2004

Katarzyna Keahey, Takuya Araki, Peter Lane: Agreement-Based Interactions for Experimental Science. Euro-Par 2004

D.P. Schissel, K. Keahey, T. Araki, J.R. Burruss, E. Feibush, S.M. Flanagan, T.W. Fredian, M.J. Greenwald, S.A. Klasky, T. Leggett, K. Li, D.C. McCune, P. Lane, M.E. Papka, Q. Peng, L. Randerson, A. Sanderson, J. Stillerman, M.R. Thompson, and G. Wallace: The National Fusion Collaboratory Project: Applying Grid Technology for Magnetic Fusion Research