# Jarrod Lombardo

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## Education

B.S. Computer Science, minor in Physics
B.S. Mathematics, minor in Philosophy
New Mexico Institute of Mining and Technology,      Socorro, New Mexico      Graduation May 2005

*Coursework of particular note*

Presenting Data and Information          Technical Writing
Zero-Defect Software Development      Modern Algebra

## Employment Experience

**Computer Programmer**
Physics Mathematics Computers Inc.      Socorro, New Mexico      February 2005 – Present
- Maintained and Extended a 500,000+ line MFC Visual C++ physics simulation and modeling software package. Extensions included implementing new OpenGL functionality, user interface improvements, server to server communications, and physics computations.
- Created a new server to allow simulations to be run remotely over a COM interface.
- Created a new server allowing a customer to configure simulations customized to their application needs.
- Coordinated parts of the project with geographically distant engineers through email.

**Class Associate for "Legal, Ethical, and Social Issues of Information Technology"**
Computer Science Dept. NMIMT          Socorro, New Mexico      January 2005 – May 2005
- Moderated in-class discussions.
- Devised and graded homework assignments.
- Created class policy in concert with the professor and one other class associate.

**Student Intern**
Arctic Region Supercomputing Center      Fairbanks, Alaska          June 2004 – August 2004
- Researched various cryptographic algorithms.
- Designed C++ MPI and OpenMP parallel programs that attempted to "brute force" passwords encrypted with the crypt(3) algorithm.
- Designed Python string manipulation programs to generate common misspellings and "leet" versions of word lists.

**Interim Technical Director**
Macey Conference Center                  Socorro, New Mexico      May 2003 – August 2003
- Maintained the Macey Center Theatre during a period between full-time Technical Directors.
- Ordered theatre supplies as necessary.
- Supervised a small staff of Theatre Technicians, including handling work logs and scheduling.
- Operated, repaired, and installed permanent and semi-permanent audio and lighting equipment.

## Volunteer Experience

**Penny Arcade Expo** (www.pennyarcadeexpo.com)
Assistant Enforcer Manager              Seattle, Washington      May 2007 – Present
- Worked closely with the Chief of Staff to manage the convention staff (roughly 350 members).
- Created informational documents and training manuals for the new staff members during the lead up to the convention.

**Nan Desu Kan** (www.ndkdenver.org)
Logistics Staff Head                      Denver, Colorado      March 2007 – Present
- Lead the on-site Logistics team to solve problems that come up during the course of the convention.
- Organized the attendee crowds and event line routes.
- Arranged for sparse resources (people and equipment) to be in the right place at the right time.
- Patrolled the convention areas looking for any security or safety risks.
- Mediated minor issues between attendees and staff members.

## Specialties

Adaptability, C, C++, Cleanroom Programming, curses (programming library), Documentation, Formal Logic, Group Management, LaTeX, Leader, MFC Visual C++, Modern Algebra, Python, Troubleshooting, Zero-Defect Programming