

Jarrold 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

Quality Architect

Forte Staff LLC Bellevue, Washington September 2009 – Present

- Enabled employees to effectively fill roles at client sites.
- Negotiated vendor contracts with clients.
- Organized company finances/budget.

UX Advanced Prototyper (Software Design Engineer 3)

Microsoft (Averro) Redmond, Washington August 2008 – August 2009

- Designed and implemented WPF/C# UX prototypes individually and as part of multiple teams.
- Created a multitouch gesture contour recognizer and corresponding manipulation library using the Microsoft Surface vision based input system.
- Drove the design and implementation of a tightly-coupled multiuser, multitouch web browsing/searching experience application.

Computer Programmer

Physics Mathematics Computers Inc. Socorro, New Mexico February 2005 – March 2008

- 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.

KTEK General Manager

Student Association NMIMT Socorro, New Mexico September 2004 – May 2005

- Dealt with the University Administration on all issues relating to the Campus Radio Station, KTEK.
- Made radio station employee policy decisions with the assistance of the Music Director.
- Led a small committee which organized events such as concerts and dances.
- Coordinated with other committees to organize large-scale, multiple-day festivals.
- Researched and began implementing “Part 15” low-power AM radio broadcasting.

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.

Chief Financial Officer

Student Association NMIMT Socorro, New Mexico May 2002 – August 2003

- Managed the Student Association (SA) financial accounts.
- Coordinated relationships between the SA and the University Administration financial offices.
- Supervised all student club income and expense accounts.
- Chaired the SA Finance Committee, which is responsible for researching and analyzing all SA budgets and finance bills.

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.

Assistant Technical Director

- Macey Conference Center Socorro, New Mexico September 2001 – May 2004
- Worked as part of a small staff of Theatre Technicians.
 - Operated and repaired audio and lighting equipment.

Undergraduate Research Assistant

- Langmuir Laboratory Socorro, New Mexico October 1998 - May 2001
- Prepared and maintained Lightning Mapping Array (LMA) data collection stations for field studies.
 - Wrote programs to assist in data collection and analysis in IDL, Perl, Bash and the C programming languages within the Linux operating system.

Volunteer Experience

Penny Arcade Expo (www.pennyarcadeexpo.com)

- Enforcer Manager Seattle, Washington May 2007 – Present
- Worked closely with the Chief of Staff to manage the convention staff (roughly 400 members).
 - Created informational documents and training manuals for the new staff members during the lead up to the convention.

- Enforcer Seattle, Washington August 2005 – May 2007
- Organized the attendee crowds and event line routes.
 - Patrolled the convention areas looking for any security or safety risks.
 - Managed small teams to take care of “one-off” tasks.
 - Filled in any apparent gaps in staffing, as possible.

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.

- Logistics Operative Denver, Colorado September 2002 – March 2007
- Managed small teams to take care of “one-off” tasks.
 - Patrolled the convention areas looking for any security or safety risks.
 - 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.
 - Filled in any apparent gaps in staffing, as possible.

Project A-Kon (www.a-kon.com)

- Troubleshooter Dallas, Texas June 2002 – Present
- Worked as part of a small team of Troubleshooters.
 - Organized the attendee crowds and event line routes.
 - Mediated issues between attendees and staff members.
 - Acted as intermediary between the convention staff and the convention center staff for security issues.
 - Arranged for sparse resources (people and equipment) to be in the right place at the right time.

Specialties

Adaptability, C#, C++, Cleanroom Programming, curses (programming library), Documentation, Formal Logic, Group Management, LaTeX, Leader, MFC Visual C++, Modern Algebra, Python, Troubleshooting, UI Layout, UX Design Implementation, Windows Presentation Foundation (WPF), Zero-Defect Programming