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## Summary

Long (10+ yr) history of Linux use, administration and programming.

In my copious free time, work on the Roadster open source GTK+/Cairo-based GPS and mapping program. There are plenty of things to do (code could use work, shapefile support very important, see bugzilla for more) so feel free to join in. . .

<http://cairographics.org/roadster/>

<http://gitweb.freedesktop.org/?p=roadster;a=summary>

Play an important role in TeamHPC's beowulf cluster integration with involvement at basically all levels: manufacturing, QA, development, integration, documentation, deployment, and support.

Know and use daily or almost daily: Bourne (bash) shell scripting, C, Python. Don't use nearly as much but conversant in PHP, C++, C#.

## Education

- **University of Chicago** Chicago, IL 2002–2005
  - M.A., Mathematics.
    - Topic exam on class field theory and étale cohomology.
    - Taught, etc. See below.
- **University of Texas at Arlington** Arlington, TX 1998–2002
  - B.S., Mathematics with a Science Minor.
    - Major GPA 4.0. Awards include outstanding freshman, sophomore, junior and senior in the math department, and the president's convocation for academic excellence.
    - Organized departmental picnic.

## Work History

- **Systems Engineer** 2006–Present
  - TeamHPC, a division of M&A Technology
    - Had first opportunity to write kernel driver, for the temperature sensors found on fully buffered DIMMs on Intel chipsets. Company was kind enough to allow it to be contributed back to the lm-sensors community. Although a competing driver from IBM was chosen for the kernel, it was a wholly entertaining experience.  
<http://lists.lm-sensors.org/pipermail/lm-sensors/2007-May/019782.html>  
<http://lists.lm-sensors.org/pipermail/lm-sensors/2007-June/019979.html>
    - Developed in-house tools and scripts for cluster integration and testing, including both work on our custom cluster management software, as well as its hopeful replacement.
    - Introduced revision control (with git) to the team. Set up and administered the git server, complete with helper scripts for various functions, checked in and merged various sources of documentation and tools, and wrote several tutorials on git to ease the transition.

- Reworked the manufacturing burn to better stress machines with more realistic loads, and to report more useful errors upon failure.
- Provided customer support for both hardware and software at all levels: from helping fix grub to pointing out that you can't have a static array with 3 billion entries in the small model of the x86-64 C ABI, and everything in between.
- Created and maintained the various system installs and configurations, the majority of which was in kickstart files, although there were some custom RPMs and scripts. Very often had to port existing loads to different or newer distributions. Administered the server used for this, and its services, including the DHCP / TFTP / PXELinux stack.
- Installed and benchmarked Beowulf clusters ranging in size from a handful of machines to more than 70 nodes on a wide variety of hardware.

- **Graduate Student/Lecturer** 2002–2005  
University of Chicago

- Taught freshman calculus. This included: preparing the syllabus (based on the department's general outline), preparing homeworks and exams, holding office hours and grading.
- Assisted with an upper level analysis course. Graded and held a problem session to discuss homework.
- Helped start the junior number theory seminar. Gave numerous talks in it and in other seminars, ranging from general audience talks to specialized talks.

- **Tutor/Head Tutor** 2000–2002  
UTA Math Clinic

- Wrote a new web-based SQL-backed time tracking system using PHP and PostgreSQL to replace the old time tracking software.
- Maintained the clinic's website.
- Tutored for lower level math classes, up to and including our combined linear algebra and differential equations class.
- Ran final review sessions at the end of each quarter, and enlisted others to help too.
- As head tutor, managed the clinic day-to-day, including scheduling of tutors, marketing, and management of the time clock and time cards.