

SEAN FINNEY

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- EDUCATION**
- Lunds Tekniska Högskola, Lund University** Lund, Sweden
International Masters' Program in Efficient Computation. Expected graduation spring 2007
 - Swarthmore College** Swarthmore, PA, USA
Graduated June 2003, Bachelor of Arts in Computer Science.
 - Université de Pierre et Marie Curie (Paris VI)** Paris, France
Fall Semester 2001. Course work focus on distributed systems and graphic algorithms.
 - Granada High School** Livermore, CA, USA
Graduated in top 10% of class. Special recognition from science and foreign language dept's.
- EXPERIENCE**
- *Gradient Solutions LLC (<http://www.gradientolutions.net>)*
 - Co-Founder, Chief Technology Officer** 2003/04 to Present
 - Provide wide range of IT support to small businesses, non-profit organizations, and academic institutions.
 - Specialized in Linux/Unix Administration, Web Development.
 - *Information Technology Services, Swarthmore College*
 - UNIX Systems Administrator** 2003/09 to 2005/08
 - Responsible for administering 40 UNIX and GNU/Linux based servers
 - Provide web, mail, DHCP, DNS, and other services for a userbase of 3000 clients
 - Provide UNIX training for ITS staff and new Systems Administrator
 - Help Desk Technician** 2003/02 to 2003/09
 - Provide software and hardware support for faculty and staff
 - Install/Remove/Troubleshoot various software for multiple operating systems
 - Unix/Linux specialist, assist with special projects and problems
 - Dormitory Technical Consultant** 2000/08 to 2003/06
 - Troubleshoot and resolve problems on students' personal computers.
 - Promoted to Manager, Spring 2002.
 - Coordinate campus-wide network of student consultants, liaison to upper management
 - *Computer Science Department, Swarthmore College*
 - Student Systems Administrator** 2000/01 to 2003/06
 - Maintain a Solaris and GNU/Linux based network for approximately 500 users.
 - Assist and educate users, by running tutorial sessions, and writing documentation.
 - Teacher's Assistant / Grader** 2002/01 to 2003/06
 - Run weekly "clinics" to help students in lower level courses.
 - Provide one-on-one tutoring for 6 students a semester.
 - Grade homework assignments and projects.
 - *User Services Group, NERSC, Lawrence Berkeley Natn'l Labs.*
 - Summer Research Intern** Summer 2001
 - Assist with transition to a 10 Tfloper 6,656-CPU non-weapons supercomputer.
 - Write applications to benchmark application performance on the new system.

⁰References and a more detailed work history furnished upon request. This document current September 11, 2005. The most up-to-date version can always be found at <http://cs.swarthmore.edu/~finney>

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RESEARCH

Nswap for Linux Clusters

under Prof. Tia Newhall, summer 2002-fall 2003

Researched and implemented remote network-based virtual memory for GNU/Linux based clusters. Received research stipend for summer 2002. Results presented at CCSCNE conference student research poster session, April 2003. Paper accepted and published, Euro-Par 2003.

Mobile Robotics

under Prof. Bruce Maxwell, fall 2002-spring 2003

Extensive research in path/motion-planning, robot vision, artificial intelligence, Kalman and particle filters, and action selection networks. Helped implement team of fully autonomous soccer playing robots. Specialized in fast image segmentation algorithms for real-time target tracking.

SKILLS/ INTERESTS

- **Programming Languages/Skills¹:** *Very Good:* C, MySQL, Perl, PHP, shell scripting *Good:* HTML, L^AT_EX, Postgresql *Some Experience:* C++, Java, Lisp/Scheme, Expect, VHDL, VRML.
- **Operating Systems:** GNU/Linux (Debian, Redhat, and Suse), MacOS (8/9/X), Microsoft Windows (3.0-XP), NetBSD/FreeBSD/OpenBSD, Solaris(2.7-2.9), Tru64 UNIX.
- **Other Skills:** Strong written and inter-personal skills, proficient in French, learning Swedish.
- **Academic and Professional Interests:** Distributed and parallel systems, systems monitoring, systems security, A.I., cryptography, networking, operating systems design/management, Free Software development.
- **Professional Organizations:** Debian GNU/Linux (developer), Philadelphia and Swarthmore Linux Users Groups, SAGE (1999), Sigma Xi Society (2002), USENIX (1999), NERCOMP (2005).
- **Other Interests:** Balinese gamelan, guitar, drums, computers, foreign languages, anime.

¹”Very Good” implies extensive experience. ”Good” implies having general proficiency. ”Some” implies previous usage and some degree of familiarity.