Rogério Luiz Iope

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Academic Education

B.Sc. in Applied Physics (major in lab instrumentation & microelectronics)
Physics Institute, University of São Paulo (2000)

M.Sc. / Ph.D. in Computer Engineering
Polytechnic School, University of São Paulo (ongoing)

Work Experience

(May 2005 - Present)
Graduate Research Assistant, São Paulo Regional Analysis Center (SPRACE)

Responsible for the administration of computer and networking resources at SPRACE, a physics laboratory for computer processing and data analysis of high-energy physics experiments generated at Fermi National Laboratory (D0 experiment). SPRACE resources are being upgraded to take part of CMS experiment from CERN LHC project, as a Tier-2 site.

(Nov 2003 - Apr 2005)
Network Engineer, University of São Paulo Computer Center

Staff member, working with the team responsible for the project and administration of the networking infrastructure of the university campus (data and voice cabling design, wireless planning, optical fiber cabling planning, switching and routing strategies).

(Jan 2001 - Oct 2003)
System Administrator, University of São Paulo Computer Center

Staff member, working with the team responsible for system installation and administration of the main computer resources of the university campus (Cray SV1, SunFire 6800, HP/Compaq Alpha cluster, Linux clusters, e-mail server, DNS servers, firewalls, database servers).
Responsible for the articulation, planning, specification and design of the first 64-processor Linux cluster installed at the Computer Center.

(Jan 1997 - Jul 1999)
Computer Programmer, TechWay S/C Ltda (Microsoft Gold Certified Partner).

Dealing with the development of Windows 95/98 DLLs, Windows NT device drivers, and WOSA/XFS service providers for banking automation.

(1994 - 1995)
Res. Assistant, Dept of Materials Science, Physics Institute, University of São Paulo

Undergraduate training, working with a multi-disciplinary team on the construction of the first home-made scanning tunneling microscope of the University. Work were done on the mechanical assembly, electronics, and computer programming for data acquisition and visualization.

(1984 – 1990)
Computer and Electronics Technician, Itaú Tecnologia S/A - Itautec

Maintenance of microcomputer systems, computer mainboards, switched power supplies, hard drives, printers, fac-similes, tape drives, and minicomputers (IBM S/370 compatible and IBM AS-400).

Other Professional Experience

Part time Instructor, Cisco Networking Academy Program - Unix Fundamentals

Residency program, IBM International Technical Support Organization at Austin, Texas, working on the development of the redbook "Information Grid Solutions", from November 03 to December 14, 2003.

Other Education Experience

CERN School of Computing 2006, a two-week intensive program comprised of a series of lectures and hands-on sessions in Grid Technologies, Software Technologies and Physics Computing. Helsinki, Finland, August 21 to September 01, 2006.

3rd EELA Tutorial for Users and Administrators, Federal University of Rio de Janeiro, Brazil, June 26-30, 2006.

Grid Summer Workshop 2005, a one-week intensive program in Grid Computing and its application in scientific data analysis. South Padre Island, Texas, July 11-15, 2005.

UltraLight Summer Workshop Tutorial, a three-day program for discussing network engineering, network research and monitoring, and scientific applications underlying the UltraLight project. Miami, Florida, June 8-10, 2005.

Pan-American Advanced Studies Institute (PASI), "Grid computing and advanced networking technologies for e-Science". Mendoza, Argentina, May 15-21, 2005.

Intel Software College training course, "Unleashing the power of Intel IA-32 Platforms using Intel Development Tools". São Paulo, Brazil, June 11-13, 2003.

Presentations

"Brazilian HEP Grid initiatives in São Paulo: The São Paulo Regional Analysis Center", 2nd EELA Workshop. Rio de Janeiro, Brazil, June 24, 2006.

"Scheduling Lightpaths: The Network as a managed resource in Grid Systems", BELIEF (Bringing Europe's eLectronic Infrastructures to Expanding Frontiers) Videoconference Workshop on Grid Research. São Paulo, Brazil, April 5, 2006.

"Algumas iniciativas em 'e-Science': Grids e redes ópticas avançadas", I Seminário sobre Inovações Tecnológicas com a aplicação de Cluster e Grid no âmbito do Governo Federal. Brasília, Brazil, December 16, 2005.

"SPRACE KyaTera/UltraLight Proposal", VI D0SAR Workshop. São Paulo, Brazil, September 16, 2005.

"The design of a Beowulf Cluster: architectural and managerial aspects", 14th Symposium of Computer Architecture and High Performance Computing. Vitória, Brazil, October 30, 2002.

Other Relevant Information

Languages
English (approaching fluency), Spanish (reading & listening)

Computing skills
Programming languages: C, C++, Java
Scripting languages: Perl, Python, Unix shell scripts
Knowledge of UNIX systems and variants (GNU/Linux, Solaris, FreeBSD)