

Gustavo Sverzut Barbieri

Education:

Computer Engineering UNICAMP - Campinas-SP; graduated on December 2005.

LPIC-1: *Linux Professional Institute* level 1, granted on June 2004.

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Introduction:

Gustavo Barbieri is a computing enthusiast, programmer since he was 9, GNU/Linux user since 1998. With solid computer engineering background and a lot initiative, always try to learn new concepts and technologies.

Objective:

Gustavo's goals are related to development and improvement of Operating Systems infrastructure, multimedia and embedded systems, from kernel to user space. He wants to work with other high-skilled people to design new platforms.

Experience:

– Development:

- **Target:** C/C++ for infrastructure; Python for applications.
- **Concepts:** Object Oriented, Procedural and Functional.
- **Experience:** C/C++ (5 years), Python (4 years), Perl (5 years), PHP (4 years), Java/JSP (1 year), Assembly (2 years), Lisp, Prolog, Clipper-CA (6 years). Programmer since 1991.
- **Free Software:** Programmer since 1999.

– **Graphical User Interfaces:** Experience developing GUIs using Trolltech's Qt, GTK and KDE. Some knowledge of WxWidgets.

– **Multimedia:** Development using SDL, GStreamer and MAS. Patches accepted by MPlayer and FFmpeg.

– **Auxiliary Development Tools:** Use and administration of version control tools SVN and CVS, GNU/Make, GNU/Autotools, SCons, Python DistUtils, DistCC, CCache and Icecream;

– **Web Development:** Projects using Python (TurboGears and CGI), Perl (CGI), PHP and Java/JSP (Struts).

– **SQL Data Bases:** administration and development with MySQL (3 years) e PostgreSQL (1 year).

– **System and Network Administration:** Experienced, 7 years doing maintenance and administration of GNU/Linux systems: installation, rescue, packaging, kernel hacking. Experience with Apache, Samba, Postfix, Cyrus, MySQL, PostgreSQL, Subversion and NFS. Great knowledge of Red Hat (4 years), Slackware (6 months), Debian (2 years), Gentoo (2 years) and Mandriva (3 years). Former employee of the *Linux Technology Center* at IBM-Brazil.

– **General Knowledge:** clustering methods (high performance, high availability and load balance); video compression standards and codecs; image process and computer graphics.

Languages:

- **English:** fluent.
- **German:** some basic knowledge.

Professional History:

- **Nokia Institute of Technology (INdT)** *Since March-2006, Recife-PE*
Full Researcher at *OSMTC — Open Source Mobile Technology Center*, working with Glib, GTK, Python, embedded systems using Maemo platform and multimedia development.
- **IBM** *March-2004 a December-2005, Campinas-SP*
Part-time job at *LTC — Linux Technology Center*, worked improving GNU/Linux in PowerPC platform, developed LiveCDs, customized Red Hat, Suse and Debian to fit IBM's needs.
- **Atech Foundation (Master of AmazonTech)** *December-2001 a April-2002, São Paulo-SP*
Part-time job at *ASP — Application Solution Provider*, developed JSP/Oracle web applications.

Academic History:

Scientific Project: “Porte de um Sistema Operacional Para Uma Arquitetura Reconfigurável” (*Operating System (Linux) port to a reconfigurable architecture*). Started at August 2003 but stopped early (March 2004) due part time job at IBM's Linux Technology Center. This project did aim to port GNU/Linux to LEON, a Sparc V8-compliant Open Source processor released under the GNU GPL.

Free Software History:

- **Eagle:** Inventor and main developer of Eagle, an easy to use GUI library using Python.
- **GCC:** Studied and implementation of a Scheme front-end for GNU Compiler Collection, GCC. This study produced a tutorial on how to create a minimal GCC front-end, presented at Linux Conference Australia.
- **LinModem:** Ported PCTel's modem *driver* from Linux 2.4 to 2.6, including the creation of a new serial layer called “linmodem”.
- **Various Patches:** Contributed patches to some projects like KDE, FFMpeg, MPlayer, Discovery, ArchC, among others.
- **Freevo:** Ex-core developer of Freevo (<http://www.freevo.org>), the free Personal Video Recorder and Entertainment for Linux.
- **PyTvGrab:** Core developer at PyTvGrab (<http://pytvgrab.sourceforge.net>), project that grabs TV channel info from sources and convert them to XMLTV format.

Voluntary Jobs:

Member of Free Software group at UNICAMP.
Ex-translator of GNU/Linux Mandriva (<http://www.mandriva.com>).

Conferences:

- **Linux Conference Australia** *2006 (Dunedin, New Zealand)*
Annual conference that, together with Ottawa Linux Symposium and Linux Kongress, is one of the core GNU/Linux technical events.
- **The GNOME Conference (GUADEC)** *2006 (Villanova i la Geltrú, Spain)*
Annual conference that bring together the greatest GNOME and associated software hackers.
- **Conferência de Desenvolvedores Python (PyConBrasil)** *2006 (Brasília-DF), 2005 (Campinas-SP)*
Annual Brazilian conference about Python programming language.
- **Fórum Internacional de Software Livre (FISL)** *2006, 2005, 2004, 2003, 2002 (Porto Alegre-RS)*
Major Brazilian forum about Free Software.
- **Latin American and Caribbean Conference of Free Software** *2005 (Recife-PE)*
Conference organized by UNESCO to discuss and promote development and use of Free Software in Caribbean and Latin America.
- **Seminário de Desenvolvimento em Software Livre (SDSL)** *2003 (Campinas-SP)*
Technical meeting at UNICAMP's Computer Center (CCUEC) to promote and training on Free Software.

Given Talks and Presentations:

- **Python in Maemo** *2006 (Villanova i la Geltrú, Spain)*
Presented at GUADEC, this talk was about problems and solutions we've found while porting Python to run in Maemo platform.
- **Eagle: agile development of simple graphical user interfaces** *2006 (Brasília-DF)*
Training on Eagle python module, given at PyConBrasil, explained the basics of graphical user interfaces (theory) and how these concepts apply to Eagle, some simple examples were developed.
- **The Structure of a GCC front end** *2006 (Porto Alegre-RS)*
Presented at Fórum Internacional de Software Livre, together with Rafael Ávila de Espíndola, we did show how GCC compiler is organized and which steps are necessary in order to support a new programming language.
- **Constructing a GCC front end** *2006 (Dunedin, New Zealand)*
Tutorial presented at Linux Conference Australia, together with Rafael Ávila de Espíndola, in which we did create a new front-end, something really simple, that always generate a "hello world" output, but that explain how GCC works internally.
- **Contributing without coding: other ways to collaborate** *2005 (Recife-PE)*
Presented at Latin American and Caribbean Conference of Free Software, explained how to collaborate with Free Software without writing source code.
- **PyGame** *2005 (Campinas-SP)*
Presented at PyConBrasil, this talk explained how to use PyGame, some code examples, tips and tricks.
- **Digital Inclusion using Free Software (LTSP)** *2005 (Campinas-SP)*
Presented at UNICAMP's Computer Center (CCUEC), this talk explained the base concepts on which the Linux Terminal Server Project was build upon. With these concepts one can use LTSP to improve situation on digital inclusion rooms.

- **Python Introduction** *2004, 2005 (Campinas-SP)*
Classes given at UNICAMP, restricted to undergraduates at Institute of Computing.
- **Game Programming using Python** *2004 (Campinas-SP)*
Classes given at UNICAMP, restricted to undergraduates at Institute of Computing.
- **Python Introduction** *2003 (Campinas-SP)*
Class given at SDSL, together with Glauber de Oliveira Costa.
- **Saving money using Remote Terminals and GNU/Linux** *2003 (Campinas-SP)*
Class given at SDSL.