Leandro Matías Lucarella

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Location:	Villa Urquiza, Buenos Aires, Argentina
Nationality:	Argentine with Italian citizenship
Birth:	1979-02-15
Updated:	2011-03

Profile

Versatile developer with a wide range of application coverage (from base library and system programming in low-level languages to graphic and web applications in high-level languages; enjoying the most working in the former).

Proactive self-taught, able to work on own motivation or as part of both small or big teams, specially using FLOSS (Free *Libre* Open Source Software) development methodologies and tools. Good skills and interest in working on distributed and concurrent systems design and implementation.

Skills

- Programming languages theory with deep practical knowledge of modern C++, C and Python.

- Wide range of web development knowledge.

- Concurrent and network programming, including POSIX threads, BSD sockets, TCP/IP and TIPC (Transparent Inter Process Communication) experience.

- VoIP knowledge (specially H.248).

- GUI programming using GTK+ (glade/libglade included).

- Object-oriented design and programming.

- Shell scripting and Linux system administration.

- Training people on programming topics.

Achievements

- Founding and actual member of LUGFI (2002) and LUGMEN (1998) Linux/FLOSS users groups, making several conferences.

- Publication of several articles on the web (1999-2005). Two of them were published on Linux Free Magazine, year 1, number 1 (2003).

- Several collaborations to popular FLOSS projects including (but not limited to):

  - Linux (2001) [C]: Bugfix in `bttv` module for Leadtek WinView 601 TV card.

  - LIRC (2002) [C]: Debug of `lirc_gpio` module.

  - PEAR (2003) [PHP]: Added `Date_Span` class and bugfixes.

  - xmi2code (2003) [C++]: Added PHP support and other minor features and bugfixes. Became project maintainer.

  - dia2code (2003) [C]: Added PHP support.

  - SQLObject (2006-2007) [Python]: Minor features and bugfixes.

  - TurboGears (2006) [Python]: Minor features and bugfixes.

  - Gnomad2 (2005) [C]: Minor GUI improvements.

- Creation of several small/medium sized FLOSS projects as part of a team:

  - Hooks (2001-2005) [PHP]: A PHP mini-framework for Unix-like console based website administration.

  - LUGFI and LUGMEN websites (1999-2004) [PHP, Apache, MySQL]: Development and maintenance of both websites (programming and sysadmin).

  - MECON Intranet (2001-2004) [PHP, MySQL]: A framework and several applications using it done at Ministerio de Economía. The code was freed (MECONlib, SAMURAI, YATTA, AI, Intranet) but never released properly.

  - Etherled (2005) [C, ASM]: A remote controlled, programmable stroboscopic image projector device using a 8051-family micro-controller, including an ISA NE2000 compatible network adapter driver and a small, custom IP/UDP stack.

  - Sercom (2004-2009) [Python, SQL]: An automated compilation and testing system for programs written in C/C++, including a security-aware backend process to compile and test in a sandbox.

  - Pymin (2007) [Python]: A Linux router administration tool based on a daemon server with client/server infrastructure.

- Development of several other personal FLOSS projects including (but not limited to):

  - eventxx (2007) [C++]: A thin C++ wrapper for libevent.

  - ev.d (2008) [D]: A thin D wrapper for libev.

  - mutest (2008) [C, C++, Python]: A simple micro unit testing framework for C and C++.

Experience

1997-date:

Freelance independent professional. Later works include small websites development and the backend deamon (written in Python) for a Linux router administration application.

2001-2004:

Ministerio de Economía - Internship - LAMP (Linux, Apache, MySQL, PHP) web development and some Linux system administration.

2004:

My Way - LAMP web development and some Linux system administration.

2004-2009:

FIUBA (Facultad de Ingeniería, Universidad de Buenos Aires) - Undergraduate teaching assistant in Programming Workshop I, covering programming topics like C, C++, POSIX threads, BSD socket API and GTK+ GUI.

2006-date:

Integratech S.A. - Development and maintenance of a monolithic (carrier grade) *softswitch* (H.248 in particular). Design and development of a new modular and distributed version of the *softswitch*.

Education

1992-1997:

Secondary school diploma, specialized in science, technology and design - CNBA (Colegio Nacional de Buenos Aires), Argentina.

1998-2010:

Informatics Engineering - FIUBA (Facultad de Ingeniería, Universidad de Buenos Aires), Argentina. Thesis: Garbage collection in the D programming language.