

EDJUNIOR BARBOSA MACHADO

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Education

- **Universidade Estadual Paulista (UNESP)**—Rio Claro, SP
Bachelor of Science (BS), Computer Science: 2001 - 2005

Experience

- **IBM - Linux Technology Center**—Home based
Software Engineer - LTC POWER Toolchain: January, 2012–March, 2017
 - GDB: enable and support POWER processors' hardware debug facilities and new instructions, as well as investigate and solve issues against upstream, Linux distros partners and IBM Advance Toolchain GDB releases.
 - PAFLib: implement and document Data Stream Control Register support (libpaf-dsc).
 - GLIBC: contribute with patches for ppc64-specific features (functions for shared resources hints) and general support (update headers with hwpoison signals).
 - Continuous Integration: install and manage ppc64[le] virtual machines used as buildslaves for GDB.
 - Support sales proof-of-concept meetings with prospect customers, leading performance tests, tuning and investigating port of Linux applications from x86 to ppc64.
- **IBM - Linux Technology Center**—Hortolandia, SP / Home based
Software Engineer - Linux Defect Support: March, 2008–December, 2011
 - Work as Level-3 technical support, screening, debugging, solving and testing issues against packages from Linux distros (Red Hat/Fedora, SUSE/openSUSE) in several areas (basesystem tools, installation and packaging, glibc, kernel).
- **Asga S/A**—Paulinia, SP
Software Developer: January, 2006–February, 2008
 - Design and develop embedded Linux system for PowerPC platform, implementing device drivers, network drivers, low level applications, libraries and CGI for telecom devices management interfaces.
- **Asga S/A**—Paulinia, SP
Intern: November, 2005–December, 2005
 - Develop and test embedded Linux utilities for telecom devices.
- **Universidade Estadual de Campinas - Centro de Computação**—Campinas, SP
Intern: Junho, 2005–Outubro, 2005
 - Implement back-end support for a PHP+PostgreSQL CMS to provide PDF report generation.

Skills

- **Operating Systems:** Linux (Fedora/Red Hat, Debian/Ubuntu, Gentoo, ELDK)

- **Computer Languages:**

- Proficient in C, Shell Script, HTML/XML
- Familiar with Python, PowerPC Assembly, Expect, PHP, PostgreSQL, CSS, JavaScript, L^AT_EX

- **Tools and Systems:**

- Proficient in GDB/gdbserver, GCC, Autotools, Vi, Git
- Familiar with DeJagNu, KVM/Qemu, KGDB, Buildbot, svn, cvs, Docker

Achievements and Activities

- Promoted to IBM Staff Software Engineer (November, 2014).
- Presentation: “Aprendendo a depurar programas com o GDB”. Presented with Sérgio Durigan Júnior at UNICAMP, Campinas - SP (July, 2011); PUC, Campinas - SP (September, 2012); UNESP, Rio Claro - SP (October, 2012). (source: <https://github.com/emachado/gdb-unicamp2011>)
- Presentation: “Depurando o Kernel de forma interativa com KGDB”. Presented with Breno Leitão at Fórum Internacional de Software Livre 11, Porto Alegre - RS (July, 2010). (source: <https://github.com/emachado/kgdb-fisl2010>)

Languages

- Portuguese: native proficiency.
- English: professional working proficiency.