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# Javier Martínez Canillas

## Summary

I'm an open-source enthusiast software engineer with experience working on different layers of the software stack.

## Interests

Software development, Linux kernel development, Linux device drivers.

## Education

*2010 - 2011*

**M.S. in High Performance Computing** - Universitat Autónoma de Barcelona, Bellaterra, Spain.

**Thesis:** *Including the Workload Effect in the Parallel Program Signature.*

Advisor: Prof. Emilio Luque.

*2002 - 2008*

**B.S. in Computer Engineering** - Catholic University "Nuestra Señora de la Asunción", Asunción, Paraguay.

**Thesis:** *A new approach to solve Multi-Objective Evolutionary Optimization Problems using Linear Genetic Programming.*

Advisor: Prof. Benjamín Barán.

## Awards and Honors

PIF-UAB predoctoral scholarship for Master of Science studies at Universitat Autónoma de Barcelona.

## Professional Experience

*September 2011 - Present*

*Linux Kernel Engineer* - ISEE (`http://www.iseebcn.com`): Embedded systems manufacturer.

Linux Kernel and bootloader (X-loader and U-boot) porting and device drivers development for custom system-on-chip boards.

Platform: Linux on ARM TI OMAP3 (Cortex-A8).

Technologies: C, Kernel Build System (Kbuild), Git.

Repository: `http://git.igep.es/`

*October 2010 - August 2011*

*M.Sc. Student and Researcher* - Computer Architecture and Operating System department, Universitat Autónoma de Barcelona.

Design and implementation of a parallel application performance analysis and prediction tool.

Doing research to improve the tool accuracy.

Plataform: Linux clusters

Technologies: C/C++, MPI, GNU Build System (Autotools), GTK.

*November 2009 - September 2010*

*Software Engineer* - TDI S.A. (`http://tdi.com.py`): Software factory.

Designed and developed an enterprise resource planning for a distribution company and a portal solution for a non-governmental organization.

Platform: Java Enterprise Edition 6 and Liferary.

Technologies: Java Enterprise Edition development consulting: Glassfish, Java Server Faces 2.0, Enterprise Java Beans 3.1, Java Persistence API 2.0, JAX-WS, JAX-RS, Facelets, JasperReports, Jboss, Liferay, Jboss Seam, Facelets.

*December 2008 - October 2009*

*Software Engineer* - Tabacos del Paraguay S.A. (`http://www.tabacosdelparaguay.com`): Cigarettes distribution company.

Designed and built a data warehouse and geographic information system.

Platform: Microsoft business intelligence and Pentaho.

Technologies: Pentaho Data Integration (Kettle), Pentaho Analysis (Mondrian), Pentaho Reporting, Pentaho BI Server, MS Integration Services, MS Analysis Services, MapServer, GeoServer, Postgresql, Postgis, MySQL Spatial Extensions, OpenLayers, Mapfish, Google Maps API.

*May 2008 - November 2008*

*Software Engineer* - Telecom Personal Paraguay (`http://www.personal.com.py`): Cell phone and internet service provider.

Designed and developed an enterprise mobile application suite and location based services.

Platform: Microsoft .Net and Gemalto.

Technologies: j2me, Gemalto SAT, $C\sharp$, ASP .Net, jQuery, Windows Services, MS SQL Server, Google Maps API, jQuery.

*March 2005 - May 2008*

> *Developer and System Administrator* - Simeic (`http://www.simeic.com`): Consulting company.
>
> Enterprise resource planning software development and Linux system administration.
>
> Platform: Linux and Mono.
>
> Technologies: $C\sharp$, GTK, PHP, Mysql, Apache, Bind, Samba, Postfix, Squid, Jabber, Iptables/Netfilter.

## Technical skills

- Languages: C, Bash, Python, Java, $C\sharp$, Javascript, PHP, SQL.

- Frameworks: GTK, GNU toolchain, Kernel Build System (Kbuild).

- Operating Systems: Linux (Kernel development, porting and device drivers).

## Open source contributions

Linux Kernel (`http://git.kernel.org`)
`http://www.ohloh.net/accounts/martinezjavier`

## Publications in Refereed Conferences

[1]   R. Sánchez, J. Martinez, B. Barán. *Macro-Economic Time-Series Forecasting Using Linear Genetic Programming*, $11^{th}$ Joint Conference on Information Sciences, Dec 15-20, 2008, China.

[2]   Javier Martinez Canillas, Roberto Sánchez, Benjamín Barán. *Estimation Models Generation using Linear Genetic Programming*. CLEI Electronic Journal Volume 12 Number 3, December 2009. Regular Issue and Special Issue of Best Papers presented at CLEI 2008, Santa Fe, Argentina.

[3]   Martinez Canillas, J. and Wong, A. and Rexachs, D. and Luque, E. *Predicting Parallel Applications Performance using Signatures: the Workload Effect*. Computer Systems and Applications (AICCSA), 2011 IEEE/ACS International Conference on. December, 2011, Sharm El-Sheikh, Egypt.

[4]   Martinez Canillas, J. and Wong, A. and Rexachs, D. and Luque, E. *Including the Workload Effect in the Parallel Program Signature*. High Performance Computing and Communications (HPCC), 2011 IEEE International Conference on. September, 2011, Banff, Canada.