

Jose Pablo Alberto Andreotti

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Personal Information

Born in Santa Cruz, Argentina, 08/10/1982.

Nationality, Argentinian/Italian.

Address, 552, Emilio Castelar Street, Córdoba. Argentina.

Education

Postgraduate Specialization in Distributed Systems

Famaf, University of Córdoba, 2009.

Average Grade: 8.87/10.

Computer Engineer

Engineering Faculty, University of Córdoba, 2007.

Dissertation: Building a dual core JVM for embedded realtime systems.

Average Grade: 8.14/10.

High School at Colegio Corazón de María

Management Oriented School, 2000.

Average Grade: 8.22/10.

Thesis

JOP(Java Optimizad Processor) is a hardware implementation of the JVM. My thesis comprises the design and implementation of a multiprocessor JVM using JOP as a building block.

Programming Experience

- ▷ Development of embedded Software in C/C++, and Java.
- ▷ Maintenance of Linux Software in C/C++.
- ▷ Experience on mobile platforms such as Android and iOS.
- ▷ Test Development in Bash/Perl/Python/Java.
- ▷ Notions of Web Services, XML, XML schema, XSLT.
- ▷ Object Oriented Design Concepts.
- ▷ Assembly Programming.

Other Skills

- ▷ Ability to write technical documents.
- ▷ Ability to learn new programming languages.
- ▷ Knowledge of communication protocols.

- ▷ Experience in performance optimization.
- ▷ Experience in debugging of communication applications.
- ▷ Knowledge of Hardware Architectures.

Postgraduate Courses Attended

- ▷ High Performance Computing: Models, Methods and Means¹, first semester 2010.
- ▷ The Semantic Web, PhD Jorge Cardoso, SAP Research Germany, first semester of 2009.
- ▷ Introduction to Radar Signal Processing, Msc Oscar Bria, INVAP, second semester of 2009. Syllabus.
- ▷ Performance and Scaling in E-Commerce Systems WS, Alex Buchmann, second semester of 2008. Syllabus.

Professional Experience

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|----------------|--|
| Current | Sr. Software Engineer at Intel.
Member of the Computer Engineering Council at National University of Córdoba. |
| Past | Software Engineer at Nimbuzz.
Software Engineer at Motorola Argentina
▷ Development of embedded software in C/C++ for Cable Modem products.
▷ Test Development and execution for the Motorola NBBS platform.
▷ Development and maintenance of AdvancedTCA clusters running Linux.
Self-employed in Software Development and Maintenance
Since 2007. I worked in projects involving the optimization of scientific applications in multiprocessor systems.
Computer Architecture Laboratory, UNC
Research Internship, From March/2006 to October/2007.
▷ Optimization of Scientific programs over multiprocessor architectures and parallel programming with MPI, HPF and OpenMP.
▷ Testing of embedded systems for the biomedical industry.
Testing of the JOP processor and JDK
I worked during 2007 for Martin Schoeberl from Viena University of Technology, Austria.
Low level optimization of scientific programs
I worked for Gerardo Hillman from the Hydric Resources Laboratory of the National University of Cordoba at Argentina. |

Publications

- ▷ Using JOP to build a chip multiprocessor JVM for embedded realtime systems. Annals of CACIC, 2007.
- ▷ Optimization of an hydrodynamical bidimensional model. ENIEF 2009.

¹Unstructured Postgraduate, and Graduate Course, Fa.M.A.F. Sincronized with Prof. Thomas Sterling's CSC7600.

Honors and Awards

- ▷ Grant earned for the completion of the Thesis Project. Given by the Science Agency of Córdoba, 2006.
- ▷ Distinction to the best average grade. Given by the College of Engineering of Córdoba, 2007.

Languages

Spanish

- ▷ Native Spanish speaker.

German

- ▷ Currently attending a second Level Course in German at the School of Languages of the National University of Córdoba.

English

- ▷ TOEFL iBT. Outcome 110 out of 120, March 2008.
- ▷ First Certificate Examination grade B. Given by Cambridge University, 2000.
- ▷ Several courses attended from 1992 to 2000.

Italian

- ▷ Currently attending a fourth level course at the School of Languages of the National University of Córdoba, 2008.

French

- ▷ One year course at "Alliance Française Córdoba", 2000.

Teaching Experience

Concurrent Programming

Computer engineering faculty, 2004.

Calculus Tutor

Electronic and Computer engineering faculty, 2003.

Conferences attended as a lecturer

ENIEF, Congress on Numerical Methods and their Applications, 2009.

Title: Optimization of an hydrodynamical bidimensional model.

Second Open Conferences in Computer Engineering, National University of Córdoba.

Title: Parallel Programming.

First Open Conferences in Computer Engineering, National University of Córdoba.

Title: A multiprocessor JVM based on JOP.

XIII Argentinian Congress on Computer Science

Article's Title: Using JOP to build a chip multiprocessor JVM for embedded real-time systems.

Hobbies

- ▷ Trekking.
- ▷ Amateur Guitar Player.

