

Jose Pablo Alberto Andreotti

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## Personal Information

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**Nationality**, Argentinian/Italian.

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

## Educational Experience

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### Postgraduate Specialization in Distributed Systems

Famaf, University of Córdoba, 2009.

Average Grade: 8.87/10.

Final Project: High Scalable Scientific Computing using Hadoop, found [here](#).

### Computer Engineer

Engineering Faculty, University of Córdoba, 2007.

Average Grade: 8.14/10.

Thesis: Building a dual core JVM for embedded realtime systems, found [here](#).

## Additional Coursework

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- ▷ Functional Programming Principles in Scala, Martin Odersky. Ecole Polytechnique Federale de Lausanne, December of 2013. [Link here](#).
- ▷ Image and video processing: From Mars to Hollywood with a stop at the hospital, Guillermo Sapiro, Duke University, first semester of 2013. [Link here](#).
- ▷ Digital Signal Processing, Paolo Prandoni and Martin Vetterli, Ecole Polytechnique Federale de Lausanne, first semester of 2013. [Link here](#).
- ▷ Machine Learning<sup>1</sup>, Andrew Ng, Stanford University, first semester of 2012. [Link here](#).
- ▷ High Performance Computing: Models, Methods and Means<sup>2</sup>, 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](#).

## Scholarships and Awards

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- ▷ Fulbright Master Scholarship. Given by the US Embassy in Buenos Aires and the Fulbright Comission.

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<sup>1</sup>This is the online version of the course.

<sup>2</sup>Unstructured Postgraduate, and Graduate Course, Fa.M.A.F. Sincronized with Prof. Thomas Sterling's CSC7600.

▷ 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.

## Professional Experience

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

## Publications

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- ▷ Using JOP to build a chip multiprocessor JVM for embedded realtime systems. Annals of CACIC, 2007.
- ▷ Optimization of an hydrodynamical bidimensional model. [link](#).

## Programming Experience

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- ▷ Development of embedded Software in C/C++, and Java.
- ▷ Experience on mobile platforms such as Android and iOS.
- ▷ Experience with RESTful Web Services on Python/Django and Scala/Akka/Play.
- ▷ Test Development in Bash/Python/Java.
- ▷ Experience in Linux Drivers development..
- ▷ Experience in profiling and performance optimization.
- ▷ Deep knowledge of computer architectures, and assembly programming.

## Open Source Projects

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- ▷ I contributed to DeepLearnToolbox, an open source machine learning toolbox written in Matlab.

## Languages

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### Spanish

- ▷ Native Spanish speaker.

### German

- ▷ Currently attending the third year of a four year course in German at the School of Languages of the National University of Córdoba.

### English

- ▷ TOEFL iBT. Outcome 109 out of 120, November 2010.
- ▷ 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

- ▷ Four years course at the School of Languages of the National University of Córdoba, 2008.

### French

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

## Teaching Experience

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### Concurrent Programming

Computer engineering faculty, 2004.

### Calculus Tutor

Electronic and Computer engineering faculty, 2003.

## Conferences attended as a lecturer

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### 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

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- ▷ Trekking.
- ▷ Amateur Guitar Player.
- ▷ Cooking and beer brewing.