Curriculum Vitae

December 2010

1. Personal

Name: Fernando Krell.

Birthday: June 16th 1984.

Citizenship: Chilean.

Marital Status: Single.

2. Studies

Graduate Studies

2010 - : PhD in Computer Science, Columbia University. Expected May 2016.

2009 - : Master of Science in Computer Science, Universidad de Chile. Expected June 2011.

Undergraduate Studies

2005 - 2009: Computer Engineer in Computer Science, Universidad de Chile.

2003 - 2005: Civil Engineering, Common Plan, Universidad de Chile.

High School

1999 - 2002: Carmen Mc Phee School , Santiago, Chile.

Primary School

1998: Carmen Mc Phee School, Santiago, Chile.

1993-1997: William Kilpatrick School, Santiago, Chile.

1989-1992: Saint Gabriel's School, Santiago, Chile.

3. Employments

- **Internship 3:** December 2007 to Jaunary 2008. Synopsys R&D Center Chile. Implementation of optimization algorithms.

- **Internship 2:** December 2006 to Jaunary 2007. Adexus S.A. developer of cluster architecture using Java CAPS.

- **Internship 1:** December 2005 to Jaunary 2006. Employee at Identity card and Passport factory, Servicio de Registro Civil República de Chile. Sonda S.A.

4. Research Activities

- Since March 2009. MS in Computer Science Thesis: Implementation of Compressed Indexes for Dynamic Collections of Texts. Advisor Professor Gonzalo Navarro Badino.

- March 2008 to May 2009. Engineer Thesis: Implementation and Security Study of a Distributed Backup System. Advisor Professor Alejandro Hevia Angulo.

5. Academic Honors

- 2009: Outstanding Student of the school of engineering and Science on 2008, Universidad de Chile.

- 2008: Outstanding Student of the school of engineering and Science on 2007, Universidad de Chile.

- 2002: Perfect Score on "Prueba de Aptitud Académica" (Nation-wide Standarized Test) in Mathematics, Chile 2002.

6. Extracurrucular Activities

- From 1998 to 2005 member of "Hashomer Hatzair" youth movement. 2005 educational leader of the movement in Chile.

7. Theses

- F. Krell. Implementación y Estudio de Seguridad de un Sistema de Respaldo de Datos Distribuido, May 2009. Computer Engineering's thesis. Department of Computer Science, Universidad de Chile. In spanish.

8. Others

2009: Master of Science in Computer Science thesis funded by Institute for Cell Dynamics and Biotechnology, Santiago, Chile.

2009: Engineer Exam grade: 7.0 (Scale 1.0-7.0).

2008: Engineer thesis funded by Fondecyt 1070332.

2003-2009: *Approved Courses:* Calculus, Algebra, Introduction to Physics, Computing I, Mechanics, Multivariable Calculus, Differential Equations, Modern Chemistry, Dynamic Systems, Applied Mathematics, Numeric Calculus, Statistic Physics, Probability, Contemporaneous Physics, Electromagnetism, English II (intermediate), English III (High Intermediate), English IV, Football and

Tennis I, Economics, Statistics, Algorithms and Data Structures, System Software Programming, Foundations of Computer Science, Application Software Development, Programming Languages, Introduction to Hardware, Design and Analysis of Algorithms, Databases, Computer Graphics, Project Evaluation, Accounting, Operating Systems, Advanced Analysis of Algorithms, Software Engineering, Data Communications, Artificial Intelligence, Object Oriented Programming, Introduction to modern Cryptography, Design of Integrated Digital Circuits, Design of Informatics Administration Systems, Advanced Communications seminar, Network Applications Programming, Geometry Computation, High Availability System Architecture, Software Project, Seminar: Multimedia Data Base Indexes, Introduction to Foundations of Cryptography, and Multi-player Games Workshop, Cryptography Seminar: Secure Multiparty Communication and Applications. None failed courses.