



# Raul Kist

## Curriculum Vitae

### Experience

- 2010–Present **Software Engineer**, SCHLUMBERGER, Rio de Janeiro, Brazil.  
Development of new products and technologies of software for Oil & Gas Industry, particularly focused on geophysics tools for Petrel E&P Software Platform.
- 2006–2010 **Intern**, MICROSOFT INNOVATION CENTER, Campinas, Brazil.  
Research on High Performance Computing, Distributed Systems and Virtualization, integrating Microsoft and open source technologies.
- Miscellaneous**
- 2007–2009 **Microsoft Student Partner**.  
Academic lectures about Microsoft related technology.

### Education

- 2006–2011 **Computer Engineering**, UNICAMP - Universidade Estadual de Campinas, Campinas, Brazil.  
Modality AA – Computer Systems
- 2004–2006 **Military Aviation**, Academia da Força Aérea (Air Force Academy), Pirassununga, Brazil.  
Air Force Cadet

### Languages

- Portuguese **Native**  
English **Fluent**  
German **Intermediate**  
Spanish **Intermediate**

*A little rusty*  
*Lived 16 years next to Argentina*

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## Publications

- 2010 **ViCOS - Virtual Cluster Orchestration System**, *CLCAR - Latin American Conference on High Performance Computing*.

ViCOS (short for 'Virtual Cluster Orchestration System') is an environment aware load balancing virtual cluster system that coordinates virtual machines that offer some service (HPC, SOA, etc) in a failover cluster, making a multipurpose environment which the main goal is to reduce the wasting of the infrastructure's computational potential. ViCOS applies cloud computing concepts to high performance compute to ensure a flexible, economic and reliable environment for performing tasks demanding high performance.

In order to do that, it uses the available idle machines of the environment, occupying them with virtual machines on demand and adapting to resources changes: if a host is to be used for other purposes, the system migrates the VMs to another host, so the task isn't interrupted and can continue elsewhere.

Therefore, the physical resources are managed without work load interruption, and the system fits itself to the environment, automatically expanding and contracting based on resource demand, focusing in both performance increase and energy savings.

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## General Courses

- |      |  |                         |
|------|--|-------------------------|
| 2012 | <b>Lean Management Workshop</b>                      | <i>Industrial Logic</i> |
| 2012 | <b>Applying Advanced Object Design with Patterns</b> | <i>Craig Larman</i>     |
| 2010 | <b>Smart Grid Research &amp; Gateway Development</b> | <i>IBM/Tivoli</i>       |
| 2009 | <b>Network Performance Reporting</b>                 | <i>IBM/Tivoli</i>       |

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## Other Interests

- Chess
- Jiu-Jitsu
- Music

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