



# Raul Kist

## Curriculum Vitae

### 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

### Experience

- 2010–Present **Software Engineer**, SCHLUMBERGER, Rio de Janeiro, Brazil.  
Development of new products and technologies of software for Oil & Gas Industry.
- 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**.  
The Microsoft Student Partners is a worldwide educational program to sponsor students majoring in disciplines related to technology. The MSP program enhances students' employability by offering training in skills not usually taught in academia, including knowledge of Microsoft technologies (Wikipedia).

Estrada do Pau Ferro, 1407, Ap 105. Freguesia de Jacarepaguá  
22745-055 Rio de Janeiro, RJ - Brazil

☎ +55 21 8465 0685 • ☎ +55 21 3547 8147 • ✉ [raulkist@gmail.com](mailto:raulkist@gmail.com)  
🌐 [linkedin.com/in/raulkist](https://www.linkedin.com/in/raulkist)

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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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## Languages

Portuguese **Native**

English **Fluent**

German **Intermediate**

Spanish **Intermediate**

*A little rusty*

*Lived 16 years next to Argentina*

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## Computer skills

Basic JAVA, Adobe Illustrator

Intermediate PYTHON, HTML, L<sup>A</sup>T<sub>E</sub>X, OpenOffice, Linux, Microsoft Windows

Advanced Computer Hardware and Support

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## General Courses

2012 **Lean Management Workshop**

*Industrial Logic*

2012 **Applying Advanced Object Design with Patterns**

*Craig Larman*

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## Interests

- Chess

- Jiu-Jitsu

- Music

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🌐 [linkedin.com/in/raulkist](https://www.linkedin.com/in/raulkist)