

**Gabriel O. Trisca**  
tog000@gmail.com  
Montemorelos, NL 67530 México  
+52 (826) 103 2892

---

## Personal Information

Date of Birth: **1989-03-31, Age 22**  
Citizenship: **Argentine**  
Gender: **Male**

## Employment

**June 2011 - Present** **Software Developer/Internship**

*NASA Goddard Center, Maryland, USA*

Position description: Software Manager, assign tasks to team members, research on point cloud stitching algorithms, development of a navigation system for an autonomous robot using GPS and sun position, porting code from C# to C++ for use with the ROS framework, code integration and overall software integrity.

**August 2010 - June 2011** **Software Developer**

*Inteligencia Aplicada Software*

Position description: Use Adobe technologies (Flash, Flex) to develop a real time, highly interactive & responsive visually rich application for the Mexican Government. Object oriented programming, PHP & Java-based backends and AMF for communication, heavy client-server data-flow, Feature Driven Development. Cannot disclose more information due to NDA.

**July 2010 - August 2010** **Software Developer/Internship**

*NASA Goddard Center, Maryland, USA*

Position description: Software Manager, assign tasks to team members, develop communication software to connect robots, improve existing software. Tutor fellow interns about good practices for software development, port lineal code to the object oriented paradigm, quality assurance, project management, code integration and overall software integrity.

**June 2010 - July 2010** **Software Developer**

*Inteligencia Aplicada Software*

Use Adobe technologies (Flash, Flex) to develop a highly interactive, visually rich application for the Mexican Government. Object oriented programming, heavy client-server interactions, Geographic Information Systems (GIS) and Feature Driven Development. Cannot disclose more information due to NDA.

**August 2009 - March 2010** **Software Developer**

*Alberto Aranda Consulting Services*

Developing a modern and efficient- yet low-requirement point-of-sale / inventory software for a chain of stores. Development was done in Java, using MySQL as backend. The software had two facades, one was for the client side (point-of-sale) Swing was used, and for administrative section, a combination of Struts and JSP was used. Logging functionality for the project was provided using Log4J.

**June 2008 - August 2009** **Software Developer/Intern**

*NASA Goddard Center, Maryland, USA*

Develop an algorithm to detect spheres in a 3D point-cloud (C#, C++). Tutor other students in

programming. Take the role of Project Leader for the period described. Act as a PR representative.

**September 2008 - April 2009**

**Software Developer**

*JWM Solutions Software, México*

Software development in different projects for the company. Develop in Java and extensive work using the ExtJs framework for the presentation layer. All the projects were designed under the MVC paradigm.

**June 2008 - August 2008**

**Software Developer**

*Scriplance.com*

Develop custom applications under the specification directly provided by the costumers. Kept the highest score in customer satisfaction.

**September 2008 - May 2008**

**Software Developer**

*IT Department Instituto Villa Aurora Italy*

Give maintenance to the local network, re-fit and improve Bash scripts to run automated tasks in the server, develop a student/HR system for the school (PHP), give maintenance to the computers in campus.

**January 2007 - May 2007**

**Developer/Graphic Designer**

*IT Department - Universidad de Montemorelos México*

Customize the Joomla CMS to fit the particular needs of different departments of the university. Develop custom extensions and plugins for Joomla (PHP). Create advanced interactions in the UI based on descriptions and mock-ups by the artist.

**January 2006 December 2006**

**Developer**

*IT Department - Universidad de Montemorelos México*

Develop systems and applications (mostly finances-related) for the department using the Appfuse (Java) framework, and related technologies (Spring, Struts, Hibernate).

**December 2005 December 2005**

**Assistant**

*Library's Computer Room Library of the Universidad de Montemorelos México*

Maintenance of the computers, provide technical assistance to the users of the room.

## Education

**August 2005 Present**

**Computer Systems Engineer**

*Spanish: Ingeniería en Sistemas Computacionales*

Universidad de Montemorelos, México

**August 2004 May 2005**

**High School**

Ozark Academy, Arkansas, USA

**August 2002 May 2004**

**High School**

*Focus on Physics, Math and Chemistry*

Preparatoria IGN, Universidad de Montemorelos, México

## Professional Qualifications

**Operating Systems**

Linux/Unix, Excellent  
Windows, Excellent  
Mac OS, Excellent

### **Programming Languages**

Java & related technologies (JSP, Spring, Struts, Hibernate, Swing/AWT, etc.) Excellent  
Actionscript v2 & v3 (AMF for communications, also basic HTTP/REST)- Excellent  
JavaScript (also jQuery, Mootools, Prototype & ExtJS, JSON, etc)- Excellent  
PHP (Using OOP, common frameworks like Symphony, CakePHP)- Excellent  
C#/.NET, Excellent  
Bash programming, Excellent  
Python (PyQt, tk), C & C++ (Qt4), Very Good  
Ruby, Good

### **Database Knowledge**

Very strong SQL knowledge, specific functionality by database provider:  
MySQL, Excellent  
Postgres (Also postGIS), Excellent  
MSSQL, Very Good  
Oracle, Average

### **Languages**

Spanish Native Speaker  
English - Fluent (ESL certified)  
Italian - Fluent

### **Other**

CSS  
HTML  
XML  
RDF

### **Other Activities**

**August 2010**

**Speaker**

*Campus Party Mexico City, 2010*

*“Robots de Exploración Planetaria” (Planetary Exploration Robots)*

Talk on common problems/challenges and their possible solutions for ground-based exploration of foreign planets based on the experiences working at NASA

**March 2008**

**Speaker**

*Training session for women about reaching the masses using technology, Ischia, Italy*

Basic training on how to create websites, publish them on the web and do SEO.

**April 2006**

**Speaker**

*8<sup>th</sup> Regional Congress of Technology and Industrial Engineerings, Veracruz, México*

*“Cultura Hacker” (Hacker Culture)*

Talk on open source and the benefits of free operating systems for students and developers

### **Interests**

Graphic design & photography, travel, philosophy and anthropology, snow sports, open source,

science fiction, production and realization of radio shows (host), playing the guitar.