

PERSONAL

Name: Demián Gutierrez
Nationality: Venezuelan / Argentine
DOB: June 12th 1978
Phone: (+58) 412-072-3941
Web: <http://www.codecompiling.net>
Email: gutierrez.demian@gmail.com

SKILLS

Software Engineering: I have strong knowledge of Design Patterns, SOLID, Model-View-Controller Pattern, UML, Architectural Styles and Workflow Concepts and Implementation (I actually developed a Workflow Engine). I also have skills working with Version Control Systems, primarily with CVS, SVN and Mercurial.

Ability and experience to design, implement, lead, and manage projects and application development with precision and effectiveness in teams and independent situations.

I'm **Certified Scrum Master** by the Scrum Alliance and **Professional Scrum Developer** by the Scrum.org.

Programming: Java (*Senior*), PHP and C/C++, Python (*Junior - Mid*)

Key Technologies: **Senior:** Core Java, reflection and multithreading programming, Hibernate, JDBC, Servlets, JSP, Struts 1, Echo 3, FreeMarker, Swing, OpenGL, JOGL, JUnit, Selenium, XML and related technologies.

Semi-Senior: Ant, Maven, Eclipse Plugin Development, Eclipse GEF, HTML, CSS, JavaScript

And it's an incomplete list, I have used lots of technologies along my career and I'm skilled and always well motivated about learning new technologies.

Databases: PostgreSQL, MySQL, MS SQL Server, Oracle.
(From the developer point of view, not the DBA point of view)

Operating Systems: Linux (+10 years) / Windows

Languages: Spanish (*Native*) and English (*Advanced / IELTS Overall 7.0*)

Areas of Interest Workflow Systems, Software Architecture, Agile Methods, Scrum, XP, Test Driven Development, Computer Graphics, Scientific Visualization, Virtual Environments, Computational Geometry, Algorithms, Artificial Intelligence and Machine Learning.

EDUCATION (studying part-time while working)

M.Sc. in Computer Science (In Progress)

University of The Andes / Universidad de Los Andes (ULA) (<http://www.ula.ve>) 2012-to date
(Estimated graduation date is February - March 2015)

Working mostly with computer graphics and spatial data structures

Graduate in Systems Engineering (5 years engineering degree)

University of The Andes / Universidad de Los Andes (ULA) (<http://www.ula.ve>) 1996-2004

Thesis Work: Development of a Petri Net Execution Engine

(Java / EJB 2.0) (Thesis work suggested for publication by the jury / advisor)

PROFESSIONAL CAREER

University of The Andes (ULA) (Mérida - Venezuela)

Assistant Professor / Full Time

July 2012 - **to date** I keep my previous responsibilities, but now I'm Assistant Professor.
My lectures on Software Engineering and Database Systems are on my YouTube channel (<http://www.youtube.com/piojosnos>) ***and on my SlideShare account*** (<http://www.slideshare.net/piojosnos>).
Reception of the lectures was good, getting more than 360.000 visits and 2.000 subscribers in three years.

University of The Andes (ULA) (Mérida - Venezuela)

Instructor Professor / Full Time

January 2009 - **June 2012** Responsible for the instruction of ***Software Engineering, Database Systems, Computational Systems*** and ***Introduction to Computer Graphics*** courses. Key responsibilities are: development of courses, instructional content and examples, teaching courses, and assisting the students as consultant in the development of their course projects.

Courses are taught using a strategy that resembles an industrial environment in the classroom. Projects are mostly developed using *Java, Swing, Apache Tomcat, Echo3, Hibernate, JDBC, DAOs, PostgreSQL, MySQL, PHP* among other technologies.

I was part of the Organizing Committee for the Mérida 2011 and 2012 Agile Tour and also facilitated Mérida/Venezuela's Global Day of Coderetreat on 2012.

Consultant and Freelance Developer

October 2009 - **to date** I work as a consultant and freelance developer. I've trained people and teams and delivered workshops on several areas: Agile Software Development, Testing, Software Architecture and UML. I was involved in the foundation of Evolución Ágil, which is a company devoted to promote agile software development in the software development community.

Minotauro C.A. (Mérida - Venezuela)
Founder of the Company / Software Engineering / Software Developer
(it was a small [~5 people] start up company)

- October 2001** - **December 2008** Minotauro was a small start-up company focused on Custom Software Development and Software Development Consulting.
- Key responsibilities included management of all the software development life cycle, interacting with clients, gathering software requirements, software engineering, software design and architecture, programming, handling technical aspects, testing and deploying.
- A partial list of developed projects can be found at:
<http://www.codecompiling.net/files/Clientes-Mino.pdf>
(Currently only available in Spanish)
- Projects were developed using *J2SE, J2EE, Struts, Hibernate, JFreeChart y JFreeReport, PostgreSQL, MySQL, MS SQL Server, Oracle*, and other technologies.

Janus Sistemas (Mérida - Venezuela)
Founder Member of the Company,
Software Engineering & Technical Consultant

- June 2005** - **December 2009** Key responsibilities included working as Software Engineering and Technical Consultant for the development of the company's flag product FenixSoft.
- FenixSoft is a Manufacturing Execution System (MES) that also included aspects of an Operation Execution System (OES). It was developed in PHP with MVC (Mojavi) and ORM (EZPDO). MES and OES systems have a strong workflow orientation and we used an in-house developed workflow engine and framework. Most of this research was developed by Minotauro and later migrated to PHP to be used by FenixSoft.

Emana Informática Profesional (Mérida - Venezuela)
J2SE / J2EE / SQL Instructor

- December 2003** - **July 2004** Instructor of the company on J2SE, J2EE and SQL areas. Key responsibilities included developing courses and delivering training to the company customers.

University of The Andes (ULA) (Mérida - Venezuela)
Undergraduate Teaching Assistant

- March 2000** - **November 2002** Undergraduate part-time Teaching Assistant in *Digital Programming 10* (teaching fundamentals of C/C++ programming), *Data Structures* and *Operating Systems*. Key responsibilities were developing and teaching practical laboratory classes, assisting the students along the courses and working on the laboratory facilities maintenance.

COURSES / ACQUIRED CERTIFICATIONS

- ◆ **Oracle Database 12c: Administration Workshop Ed 1 (CS) LVC PRV** , by Joel Perez, 40 hours, Oracle University , April 2014.
- ◆ **Spatial Data Structures**, by Ernesto Cuadros-Vargas, 8 hours, Escuela Venezolana de Informática (EVI), September 2013.
- ◆ **Non-Conventional User Interfaces**, by Luciana Nedel, 8 hours, Escuela Venezolana de Informática (EVI), September 2013.
- ◆ **Game Engine Architecture and Video-Game Anatomy**, by Esteban Walter Gonzalez Clua, 8 hours, Escuela Venezolana de Informática (EVI), September 2013.
- ◆ **Professional Scrum Developer** by the Scrum.org, May 2012.
- ◆ **Model Thinking** (Scott E. Page, Coursera, April 2012).
- ◆ **Computer Science 373: Programming a Robotic Car** (Sebastian Thrun, Udacity, April 6, 2012).
- ◆ **Computer Science 101: Introduction To Computer Science, Building a Search Engine** (David Evans, Udacity, April 6, 2012) (It was a nice way to learn Python).
- ◆ I took the free on-line courses offered by Stanford professors in late 2011, Notice I've never been officially enrolled at Stanford University I only hold a digital (pdf) State of Accomplishment signed by the professors. I graded more than 94% in the three courses:
 - **Introduction to Artificial Intelligence** (ai-class.org), Sebastian Thrun, Peter Norvig.
 - **Machine Learning** (ml-class.org), Andrew Ng.
 - **Introduction to Databases** (db-class.org), Jennifer Widom.
- ◆ **Certified ScrumMaster** by the Scrum Alliance, October 2011.
- ◆ **Postgraduate Certificate in Education**, one year programme of teaching training, January - December 2009, University of The Andes, Office of Vice-President for Academic Affairs, Educational Improvement Programme (PAD).
- ◆ **Integrated Automation Systems Implementation Methodologies**, Janus Sistemas C.A. January 2008.
- ◆ **PHP WEB Developer Certification**, PHP Venezuela, September 2006.
- ◆ **Marketing for Small Entrepreneurs**, Mérida Business Incubator / Technological Park / RS Marketing Consulting, June - September 2006.

UNDERGRADUATE RESEARCH PROJECTS DIRECTED

(All in Spanish, titles are also translated to English for reference)

- ◆ “Plugin para Eclipse y Maven de soporte para el framework de internacionalización Cleda18N”, (*“Eclipse and Maven Plugin to support Cleda18N internationalization”*), Karly Toloza (*work in progress, estimated finalization date July 2014*).
- ◆ “Plugin para generar y editar estados de una Red de Petri en el editor gráfico de flujos de trabajo de CledaFlow” (State generator and editor plugin for the CledaFlow Petri Net graphical editor”), José Hidalgo (*work in progress, estimated finalization date July 2014*).
- ◆ “Editor Gráfico y Generador de Código Ejecutable Basado en Eclipse y GEF para Maquinas de Estados”, (*“Executable Code Generator and Graphic Editor Based on Eclipse and GEF for Finite State Machines”*), Jesús García, (January 2013).

- ◆ "Framework Basado en Agentes para Ambientes Virtuales Dinámicos Multiusuario" (*"Agent Based Framework for Multiuser Dynamic Virtual Environments"*), Miguel Flores, (January 2013).
- ◆ "Desarrollo de Aplicaciones Móviles para Android: MagicRoot, un Caso de Estudio", (*"Mobile Application Development for Android: MagicRoot, a Case Study"*), Andrés Zamora, (December 2012).
- ◆ "Aproximación Elipsoidal Para Velocidades Sísmicas en Medios con Anisotropía Monoclínica" (*"Ellipsoidal Approximation for Seismic Velocities for Monoclinic Anisotropy Media"*), Andrés Acosta (September 2012), I worked as co-advisor in scientific visualization area together with Dr. Pedro Contreras who was the thesis science advisor.
- ◆ "Implementación de un editor gráfico para el motor de flujos de trabajo CledaFlow basado en Redes de Petri", (*"A Graphic Workflow Editor for the CledaFlow Petri Net Based Workflow Engine"*), Luigi Romano (May 2012).
- ◆ "Implementación de una estrategia de Servicios Web transaccionales y concurrentes", (*"A Transactional and Concurrent Web Service Strategy"*), Samantha Gamboa (March 2011).
- ◆ "Desarrollo de una Herramienta Computacional para la Clasificación y Visualización de Registros Subcorticales", (*"Development of a Computational Tool to Classify and Visualize Subcortical Records"*), María Carolina Calderón Padrón (October 2011), I worked as co-advisor in software engineering area together with Prof. Renny Marquez who was the thesis advisor.
- ◆ "Evaluación del motor de flujos de trabajo CledaFlow, según los criterios establecidos en los patrones de flujos de trabajo (Workflow Patterns)", (*"Evaluation of the CledaFlow Workflow Engine Against Workflow Patterns"*), Carlos Enrique Azuaje, (May 2009).

PUBLICATIONS (All in Spanish, titles translated for reference)

- ◆ "Visualización Preliminar de Imágenes Astronómicas para el Sistema Telescopio Jürgen Stock", (*"Preliminary Visualization of Astronomical Images for The Jürgen Stock Telescope System"*), Iván Vivas, Andrés Arcia-Moret, Domingo Hernández, Carmen Rodríguez, Demian Gutierrez, 5to Congreso Iberoamericano de Estudiantes de Ingeniería Eléctrica (V CIBELEC 2012), 6 pages.
- ◆ "Localización y Clasificación de Estructuras Subcorticales en Pacientes Parkinsonianos", (*"Localization and Classification of Sub-cortical Structures in Parkinsonian Patients"*), Javier Barrera, María Carolina Calderón, Renny Márquez, Pablo Guillén, Gabriel Gutiérrez, 5to Congreso Iberoamericano de Estudiantes de Ingeniería Eléctrica (V CIBELEC 2012), 6 pages.
- ◆ "Enseñanza de la Ingeniería Reproduciendo el Ambiente Industrial. Un Manejo Integral de Conocimiento", (*"Teaching Engineering Reproducing the Industrial Environment. An Integral Knowledge Management"*), Sandia, B., Gutiérrez, D., Hernández, D. y Páez, G., EDUCERE, Nº 51, Septiembre - Diciembre / 2011, ISSN 1316-4910, 22 pages.
- ◆ "MAVD: Propuesta metodológica para el desarrollo de un ambiente virtual dinámico", (*"MAVD: A Methodological Proposal for Development of Dynamic Virtual Environments"*), Domingo Hernández, Demián Gutierrez, Judith Barrios, Ninth LACCEI Latin American and Caribbean Conference (LACCEI'2011), August 3 to 5, 2011, Medellín, Colombia.

- ◆ “RAIS: Una Estrategia para el Manejo Integral de Conocimiento, Experiencias en Ingeniería”, (*“RAIS: A Strategy for Integrated Knowledge Management: Experiences in Engineering Courses”*), B. Sandia, D. Gutiérrez, D. Hernández, J. Alvarado, J. Parada, M. Vergara, G. Páez, III Congreso Venezolano de Enseñanza de la Ingeniería, Mérida, Octubre 2010, Mérida, Venezuela, 9 pages.
- ◆ “RAIS: Una Estrategia para el Manejo Integral de Conocimiento. Enseñanza de la Ingeniería Reproduciendo un Ambiente Industrial”, (*“RAIS: A Strategy for Integrated Knowledge Management: Teaching Engineering Reproducing the Industrial Environment”*), Sandia Beatriz, Gutiérrez Demián, Hernández Domingo y Páez Gerard, XXXVI Conferencia Latinoamericana de Informática (CLEI 2010), XVIII Congreso Iberoamericano de Educación Superior en Computación (CIESC 2010), 14 pages.
- ◆ “Estrategia RAIS: Reproducción del Ambiente de Trabajo Industrial de Carácter Universal en el Salón de Clase. Un manejo integral de conocimientos”, (*“RAIS Strategy: Reproducing the Universal Industrial Work Environment in the Classroom, an Integrated Knowledge Management”*), Sandia, B., Gutiérrez, D., Hernández, D. y Páez, G., VIII Reunión Nacional de Currículo y II Congreso Internacional de Calidad e Innovación en la Educación Superior, Caracas, Julio 2010, 16 pages.
- ◆ “Metodología para la automatización integrada de procesos de producción basada en el enfoque holónico”, (*“Integrated Methodology for Production Processes: Automation Based on the Holonic Point of View”*), Edgar Chacón, Juan Cardillo Albarrán, Rafael Chacón, Oscar Rojas, Demián Gutierrez, XIII Congreso Latinoamericano de Control Automático | VI Congreso Venezolano de Automatización y Control (Noviembre de 2008), 8 pages.
- ◆ “Los CLEDAs: Una nueva arquitectura para optimizar el desarrollo de aplicaciones WEB”, (*“CLEDAs: A New Architecture to Optimize WEB Application Development”*), Gabriel D. GUTIERREZ, Alejandro SALAS, Angel A. PÉREZ, 6ta Conferencia Iberoamericana en Sistemas, Cibernética e Informática (Julio 2007), 4 pages.

AWARDS RECEIVED

- ◆ In 2011 and 2013, while working at the University of The Andes, I earned a PEII certification as “A” and “A-2” level researcher. PEII translates to “**Research and Innovation Incentive Programme**”. More information at www.oncti.gob.ve/ and at (Spanish only).

EXTRA CURRICULAR ACTIVITIES DURING ACADEMICS

- ◆ Along my undergraduate studies I participated as a contestant in several local and regional ACM programming contests.

PERSONAL AND PROFESSIONAL REFERENCES

Provided on demand