

Curriculum Vitae

Personal Information

Surnames / First name	González Sánchez / Alberto
Address	Mekelweg 4, 2628CD Delft, The Netherlands
Telephone	+31 15 278 6338
Email	a.gonzalezsanchez@tudelft.nl
Nationality	Spanish
Date of birth	March 27, 1984
Gender	Male

Work Experience

Dates	October 2007 – present
Occupation	Assistant in Opleiding (AIO). Research Trainee
Activities	Ph.D. Research, Supervision of Master students
Employer	Software Technology Department, Delft University of Technology Mekelweg 4, 2628CD Delft, The Netherlands
Sector	Academia, Research, Education
Dates	April 2007 – June 2007
Occupation	Student Assistant
Activities	Supervision of Bachelor students. Course: <i>Introduction to Java Programming</i>
Employer	Faculty of Aerospace Engineering, Delft University of Technology Kluyverweg 1, 2629HS Delft, The Netherlands
Sector	Education
Dates	July 2006 – September 2006
Occupation	Intern
Activities	Virtual campus deployment (Moodle). Project RICE-CyL <i>Red Interuniversitaria de Informática en la Convergencia Europea</i>
Employer	Faculty of Informatics, University of Valladolid Campus Miguel Delibes s/n, 47011 Valladolid, Spain
Sector	IT, Education
Dates	September 2005 – June 2006
Occupation	Intern
Activities	Developer of .NET web services
Employer	Servicio de Informática, Cortes de Castilla y León Fuensaldaña, Spain
Sector	IT, Government

Education and Training

Dates	2007–in progress
Title of qualification awarded	Ph.D., Computer Science
Institution	Delft University of Technology, Delft, The Netherlands
Topic	<i>Integration, Verification and Diagnosis of Large-scale Component Based Systems</i>
Dates	2005–2007
Title of qualification awarded	Ingeniería Informática (M.Sc., Computer Science)
Institution	Universidad de Valladolid, Valladolid, Spain
Master Thesis	<i>Automatic Error Detection Based on Program Invariants</i> Performed at the Delft University of Technology, Delft, The Netherlands, as exchange student under the Erasmus programme of the European Union
Dates	2002–2005
Title of qualification awarded	Ingeniería Técnica Informática de Sistemas (B.Sc., Computer Engineering)
Institution	Universidad de Valladolid, Valladolid, Spain
Graduation Project	<i>ACP5: Sistema de Agenda Parlamentaria para Dispositivos Móviles</i> In collaboration with <i>Servicio de Informática de las Cortes de Castilla y León</i> , the IT department of the Parliament of Castile and Leon

Personal Skills and Competences

Mother tongue

*Self-assessment
European level^(*)*

English
French
Dutch
Japanese

*Language Certificates
European Level^(*)*

English
Dutch

Computer Skills and
Competences
Operating Systems
Programming

Driving Licence

Spanish

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2 Proficient	C2 Proficient	C1 Proficient	C1 Proficient	C2 Proficient
B1 Independent	B1 Independent	B2 Independent	B1 Independent	B1 Independent
B2 Independent	C1 Proficient	B2 Independent	B1 Independent	B1 Independent
A2 Basic	A2 Basic	A2 Basic	A2 Basic	A2 Basic

^(*)Common European Framework of Reference (CEF) level

Title of Certificate	Awarding body	Date	Level
Certificate in Advanced English	Cambridge ESOL	2006	C1 Proficient
Nederlands voor Buitenlanders	James Boswell Instituut	2006	A1 Basic

^(*)Common European Framework of Reference (CEF) level

Windows (7, XP, 2003), Linux (Debian, Gentoo) and Mac OS X
C, C++, C#, Java, Eiffel
PHP, Python, Ruby
Prolog
Assembly: Intel IA32, Sun Sparc
Category B (Car)

Publications

Book chapters

Éric Piel, **Alberto González**, and Hans-Gerhard Gross. Automating integration testing of large-scale publish/subscribe systems. In Annika Hinze and Alex Buchmann, editors, *Principles and Applications of Distributed Event-Based Systems*. IGI Global, 2010

Conference papers

Éric Piel, **Alberto Gonzalez-Sanchez**, Hans-Gerhard Gross, and Arjan J.G. van Gemund. Runtime testability in dynamic high-availability component-based systems. In *2nd International Conference on Advances in System Testing and Validation Lifecycle, VALID '10*, Nice, France, August 2010. IEEE Computer Society. (To appear)

Alberto Gonzalez-Sanchez, Éric Piel, Hans-Gerhard Gross, and Arjan J.G. van Gemund. Minimising the preparation cost of runtime testing based on testability metrics. In *34th IEEE Computer Software and Applications Conference, COMPSAC '10*, Seoul, South Korea, July 2010. IEEE Computer Society. (To appear)

Alberto Gonzalez-Sanchez, Eric Piel, Hans-Gerhard Gross, and Arjan J.C. van Gemund. Prioritizing tests for software fault localization. In *10th International Conference on Quality Software, QSIC '10*, Zhangjiajie, China, July 2010. IEEE Computer Society. (To appear)

Teemu Kanstrén, Éric Piel, **Alberto Gonzalez-Sanchez**, and Hans-Gerhard Gross. Observation-based modeling for testing and verifying highly dependable systems – a practitioner’s approach. In Achim Wagner, editor, *Workshop Design of Dependable Critical Systems*, pages 1–8, September 2009

Éric Piel and **Alberto Gonzalez-Sanchez**. Data-flow integration testing adapted to runtime evolution in component-based systems. In *Proceedings of the 2009 ESEC/FSE workshop on Software integration and evolution @ runtime, SINTER '09*, pages 3–10, Amsterdam, The Netherlands, 2009. ACM

Alberto Gonzalez-Sanchez, Éric Piel, and Hans-Gerhard Gross. Ritmo: A method for runtime testability measurement and optimisation. In *9th International Conference on Quality Software, QSIC '09*, pages 377–382, Jeju, South Korea, August 2009. IEEE Computer Society

Alberto González, Éric Piel, and Hans-Gerhard Gross. A model for the measurement of the runtime testability of component-based systems. In *Proceedings of the IEEE International Conference on Software Testing, Verification, and Validation Workshops, ICST/AMOST '09*, pages 19–28, Denver, USA, April 2009. IEEE Computer Society

Alberto Gonzalez, Eric Piel, and Hans-Gerhard Gross. Architecture support for runtime integration and verification of component-based systems of systems. In *23rd IEEE/ACM International Conference on Automated Software Engineering - Workshops, ASE/ARAMIS '08*, pages 41–48, September 2008

Alberto Gonzalez, Eric Piel, Hans-Gerhard Gross, and Maurice Glandrup. Testing challenges of maritime safety and security systems-of-systems. In *Proceedings of the Testing: Academic & Industrial Conference - Practice and Research Techniques, TAICPART '08*, pages 35–39, Windsor, United Kingdom, 2008. IEEE Computer Society

Rui Abreu, **Alberto González**, Peter Zoetewij, and Arjan J.C. van Gemund. On the performance of fault screeners in software development and deployment. In *Proceedings of the 3rd International Conference on Evaluation of Novel Approaches to Software Engineering, ENASE '08*, Funchal, Madeira, Portugal, May 2008. INSTICC Press

Rui Abreu, **Alberto González**, Peter Zoeteweij, and Arjan J. C. van Gemund. Automatic software fault localization using generic program invariants. In *Proceedings of the 2008 ACM symposium on Applied computing, SAC '08*, pages 712–717, Fortaleza, Brazil, 2008. ACM

Other

Alberto González. Automatic error detection techniques based on dynamic invariants. Master's thesis, Delft University of Technology and Universidad de Valladolid, August 2007. Master's thesis