

José Ramón Cano Yribarren

Software Engineer

Personal information

First Name José Ramón
Last Name Cano Yribarren
Gender Male
Nationality Spanish
Marital status Single
Age 29
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Languages

Spanish **Native**
English **Fluent** *Work abroad for more than 4 years, speaking English in a daily basis.*
Dutch **Basic**

Experience

2012–Present **Lead software engineer at R&D**, *The Consultancy Firm*, The Netherlands.
2010–2011 **Internship at Virtual Reality Lab**, *University of Granada*, Spain.

Education

2005–2011 **Engineering in software and computer science**, *University of Granada*, Spain.
◦ Specialization in software engineering, AI and graphics.
◦ High grades
◦ Maximum grade (10) at final year project: implementation of a real time volumetric Ray-Casting renderer in GPU with support for stereoscopic vision.
2003–2005 **Science high school diploma**, *Instituto Padre Manjón*, Granada, Spain.

Knowledge

My main areas of knowledge are the following (items are listed in descending order of experience):

Programming Languages	C/C++, Java, C#, Python, Objective-C, Asm, PHP, JS, Ruby, Haskell.	Technologies	XML (DOM, SAX, XPath, Serialization/Marshalling), WebServices (SOAP/REST), LDAP.
Web Frameworks	Ext.Net, MEAN stack, socket.io. Others: Laravel, Django, Ruby on Rails	GUIs	Swing, Cocoa Touch, Qt, SDL.
Software Design	UML, Object Orientation, MVC, SOLID principles Design Patterns, TDD/BDD, data structures and algorithms, CVS (git/svn).	Testing Libraries	Xunit, JUnit, Mocha, etc
OS	Advanced use of GNU/Linux, *nix CLI (e.g. Mac OS X) and kernel compilation. Windows at user level and basics of Windows Server and DOS scripting.	DB	SQL/T-SQL, MicroSoft SQL Server, MySQL, Oracle.

Others

Background in Artificial Intelligence and Soft Computing	Bio-inspired and evolutionary algorithms, Artificial Neural Networks (Matlab), Computer Vision (OpenCV), Pattern Recognition, System Simulation.	Background in Parallel Programming	MPI, OpenMP, OpenCL, Threads.
Electronics	Basic knowledge in electronics. Pic/AVR microcontrollers programming, just as a hobby. PLCs programming.	Computer Graphics	OpenGL (VBO, DL, FBO, GLSL), raytracing, volumetric-raycasting.
Favorite IDEs	Vim + Tmux!, VisualStudio, IntelliJ IDEA, Eclipse, Netbeans, QtCreator	Other Software	Emacs, Git, SVN?, Makefile, PlantUML, Doxygen, GNU-plot
Office Suite	L ^A T _E X, Sphynx, Markdown, and when needed OpenOffice/Microsoft Office.	Other Skills	Problem Solving. Mathematical/Algorithmic and Abstract thinking. Good communication skills and team work. Ease of learning & curiosity. Perfectionist.

Projects @ The Consultancy Firm

The Document Wizard	Main project. A web application written in C# (backend) using ASP.Net, Ext.Net (frontend), MicroSoft SQL Server (persistence), ActiveDirectory (authentication), WCF (web services), etc. This application connects to <i>OpenText's Stream Server</i> via it's SOAP API to generate documents based on answers to questions pre-programmed by the user.
DocWiz	An iOS app written in Objective-C that works as an online or offline client for The Document Wizard.
Augmented Documents	An augmented reality app for iOS using OpenGL, and MetalIO SDK. (proof of concept)
The Apprentice	An intuitive WYSIWYG editor written in Java, with Swing for the GUI, to generate "Question" configurations for The Document Wizard. Those configurations are marshalled to a file or directly uploaded with SOAP.
Sandd Connector	A <i>StreamServe</i> connector written in Java to sort the letters in the printing queue of a printshop based on a network file with the physical addresses in the Netherlands and according to a sorting and classification algorithm, so that the letters are produced in which Sandd would deliver them, minimizing the costs of posting.
PDF connector	A <i>StreamServe connector</i> written in Java and using the PDFBox library to fix 'faulty' PDF output that <i>StreamServe</i> generates.
PS connector	A <i>StreamServe connector</i> written in Java that parses <i>PostScript</i> output to fix problems in its fonts.
ASure	A notification connector in Java for error reporting to a MicroSoft SQL Server database using JDBC.
SocioPath	A reactive web application written in <i>NodeJS</i> using the <i>MEAN</i> stack (<i>MongoDB</i> , <i>ExpressJS</i> , <i>Angular 1</i> , <i>Socket.io</i> , etc) to integrate multiple social network communication channels (Facebook messenger, WhatsApp, Telegram and more) for customer service. It also acts as a messenger bot.

Areas of interest

- PC software development
- Mobile devices programming
- Open Source
- Intelligent systems and robotics
- Back end software development
- Graphics programming
- Automation
- Embedded systems programming

Other interests

- Music
- Electronics
- Aeronautics
- Puzzles/challenges