Curriculum Vitae

Personal information

Surname / First name	# Hortolano Villarejo, Julián
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Summary **Main Skills**	• Computer Science Engineer with 10 years working experience, 7 of them in Murex Consultancy roles. • Specialized in Murex Back Office, Processing and Integration roles. • Passed CFA Level I (2015).

Application	Modules		Programming	Databases
• Murex 3.1 • Murex 2.11	• Processing • Interfaces • Murex APIs • PostTrade/PreTrade formulas and workflows	• MxML Exchange • OSP • MDRS/MDML • Accounting • e-Trade Pad • Onyx	• Java • Unix • XSLT • SQL • Python	• Oracle • Sybase • Postgres • MySQL

Work experience

Dates	From November, 2014 – Present
Occupation or position held	**Senior Murex Consultant at Murex**
Company:	Murex
Clients:	**Murex**, Paris (France), **Nationwide** (UK), **DZPB** (Luxembourg)
Main technologies and responsibilities in the current job:	**Senior Murex Consultant covering a Murex Greenfield Implementation (Nationwide) and Murex FEM Migration (DZPB) specialized in Back Office/Processing/Integration.**

- Member of Murex CDS (Client Delivery Service) team.
- Mx 3.1 Greenfield cross-asset implementation using Mxpress environments and Agile methodology, covering FX, IRD, CRD and EQD products (Nationwide, UK).
- FEM Migration from Mx 2.11 environment to new Mx 3.1 using Mxpress environment and adapting it to client requirements, covering FX, IRD, CRD products (DZPB, Luxembourg).
- Requirement management and functional/technical documentation liaising directly with clients.
- Responsible for all Back Office configuration:
    - Post-Trade workflows (Contract, Exchange, Deliverable, Event, SI, Collateral, etc.)
    - Post-Trade formulas (XSL, XSLTree, XMLF, XMLBM, SQL, etc).
    - MSL/Pre-Trade formulas, lookup tables and pre-Trade workflows configuration.
    - OSP configuration, OSP queues, OSP rights.
    - STP Rights
    - Import Trades into Murex through interfaces
    - Payment and Deliverable Configuration (SWIFT, CLS, etc).
    - Working together with Collateral team (workflow configuration for Margin Calls, Transfers, etc).
- Design/Build using Agile methodology (SCRUM) and JIRA to meet and deliver client requirements.
- Responsible of customer show sessions, trainings and interaction.
- Assistance through all the issues, enhancement and bug fixings during the phases of SIT and UAT.
- Provide expertise and support to stream member juniors.
- Gathering extra requirements not supported in the MXpress configuration and configuring through UDFs and structures.

Other	**Successful go-live at DZPB (Luxembourg) project at May, 2015**

Complementary Training	Murex Accounting Module (from Murex S.A.S.)

Dates	From October, 2013 – November, 2014
Occupation or position held	**Senior Murex Consultant at Murex** Head of Technology and Development at MXG
Company:	Murex / MXG
Clients:	**Murex**, Paris (France), **WGZ**, Dusseldorf (Germany), **DZPB** (Luxembourg)
Main technologies and responsibilities in the current job:	**Senior Murex Consultant covering two Murex FEM Migrations for investment banks (WGZ and DZPB) specialized in Back Office/Processing/Integration.**

- Member of Murex PES (Product Evolution Service) working together with clients and Murex CDS (Client Delivery Service)
- Requirement management and functional documentation liaising directly with the clients.
- FEM Migration from Mx 2.11 environment to new Mx 3.1 using Mxpress environment and adapting it to client requirements.
- Responsible for all Back Office configuration:
  - Contract, Event, Exchange, Deliverable, SI workflows
  - PostTrade formulas covering XSL/XSLT/XMLF/XMLBM and SQL.
  - MSL/PreTrade formulas, lookup tables and preTrade workflows configuration.
  - New OSP configuration, OSP queues, OSP rights.
  - STP Rights
  - Import Trades into Murex through interfaces
  - Payment and Deliverable Configuration
- Design/Build in Agile mode (SCRUM) of the solution based on the client requirements.
- Responsible of customer show sessions and interaction.
- Use of Onyx to Murex Test Automation and Reconciliation.
- Responsible for fixing and payment reconciliation in the FEM migration.
- Assistance through all the issues, enhancement and bug fixings during the phases of SIT and UAT.
- Provide expertise and support to stream member juniors.
- User Defined Fields and structures to cover extra requirements not supported in the MXpress configuration.

- As a Head of Technology and Development at MXG:
  - Manage development team to maintain a system agnostic test management, configuration management and environment management solutions for financial systems.
  - Manage development team to create a full web rich application covering a planning system, version controlling and scheduling using Java technology, Groovy, Grails and Angular JS for financial systems.

Other:	**Successful go-live at WGZ (Dusseldorf) project at September, 2014**

Dates	From August, 2012 – October, 2013
Occupation or position held	**Senior Murex Consultant / Head of Technology and Development**
Company:	MXG
Clients:	**Helaba**, Frankfurt (Germany), **Volksbank**, Austria (Vienna), **BP**, London (UK)

Main technologies and responsibilities in the current job:	**Murex Integration, Back Office and Mxml Expertise at clients.** **Leading the Testing Consultant and Development department for a system agnostic test automation framework on behalf of clients in the commodities and capital markets at MXG.** • Managed offshore team to deliver system agnostic test management, configuration management and environment management solutions for system integration, using Java technology, driven by a planning/scheduling automation framework supporting full web integration and user permissioning. Additionally implemented front to back test automation specifically tailored to cross asset Murex 2.11 & 3.1 implementations. • Use of Agile methodology (SCRUM) and Jira to requirement gathering and development management. • Configuration of MXML exchange workflows to manage Back Office requirements for Interest Rate, Equities and FX business, and transformation formulas to import external data and trades into MX 3.1 from different Systems (Kondor+) using interfaces. • Configuration of Pre-Trade Murex Formula and adapting e-TradePad to manage Front and Back Office requirements. • Managed delivery of a stress/load testing and model validation solution for one of the largest energy trading companies in the world, with full reconciliation outcomes being delivered by email to quantitative analysts and traders. • Implementing scalable, repeatable and unified test processes across key areas of the trade lifecycle, including pricing and trade capture, reconciliation, version/merge control, batch workflow decision processes (EOD) and robust environment templating/rollout/deployment. • Analysis and Design of interfaces between MarkitWire and Murex for a financial clearing house system. • Delivered scalable, repeatable and robust automation methodologies for Murex functionalities front to back, covering pricing and trade capture, reconciliation (static data, trade data, P&L), post trade workflows (OSP validation and using Murex APIs) version control & configuration management optimization techniques, dashboard analytics, EOD scheduling and environment management & rollout. • Assisted various Murex teams and users as part of new configuration or issues on workflows, liaising with the vendor as necessary of bug fixes and necessary enhancements, as well as assisting in key SIT/UAT phases.
Complementary Training	Murex Pricing and Pre-Trade Configuration (from Murex S.A.S.)
Dates	From June, 2011 – August, 2012
Occupation or position held	**Senior Murex Consultant**
Client:	**Swiss Re**, London (UK)
Main technologies and responsibilities in the current job:	**Murex Migration from Mx 2.9 to Mx 3.1.26.** **Responsible of Integration, Back Office, Mxml, Interfaces development and Market Data area.** • Configuration of MXML exchange workflows to manage STP requirements for Interest Rate, Equities and FX business, and transformation formulas to import external data and trades into MX 3.1 • Migration and import of trades (IRD, CRD, FX), Settlement Instructions, Portfolios, etc. through workflows and MxML using interfaces and formulas. • Responsible for development to Murex data dictionary formula covering XSL/XSLT/XMLF/XMLBM and SQL. • Development of interfaces in Java to handle trade transformation and import from Summit into Murex.

- Development of Unix scripting to handle automated process to import/export configuration and market data through Murex interfaces.
- Undertook scripting of MDML and FMGL (Historical Data) components to import/export market data values through MDRS and also supported testing/validation of same using Murex API.
- Familiar with pricing of financial derivatives within e-Tradepad, as well as various products and their associated behaviour (including FX Option, Cross Currency Swaps, Interest Rate Swap, Barriers, etc).
- Assisted various teams and users as part of the migration, diagnosing various Murex issues on workflows, liaising with the vendor as necessary of bug fixes and necessary enhancements, as well as assisting in key SIT/UAT phases.

Support of the pre-existing Murex configurations and assistance to the day-to-day requirements.

Other:	**Successful go-live at February 2012**
Dates	From January, 2011 – June, 2011
Occupation or position held	**Consultant/Business Analyst**
Company:	Excelian, London (UK)
Client:	Sanlam Capital Markets, Johannesburg (South Africa) / London (UK)
Main technologies and responsibilities in the current job:	**Development of post-trade MxML workflow based functionalities for Murex 3.1 & 2.11 clients**

- Configuration of MXML exchange workflows to manage requirements of clients for Interest Rate, Equities and FX business, using PostTrade formula covering XSL/XSLT/XMLF/XMLBM and SQL.
- Familiar with Murex Scripting Language (MSL) used in completion and compliance rules for Murex trading activities, covering pre-trade calculation template workflows and post-trade processing center workflows
- Familiar with pricing of financial derivatives within e-Tradepad, as well as various products and their associated behavior (including FX Option, Cross Currency Swaps, Interest Rate Swap, Barriers etc)
- Provided documentation on various Murex project work internally in preparation for client engagements.

Type of business or sector	Murex Consultancy
Dates	From January, 2010 to December 2010
Occupation or position held	**Murex IT Consultant**
Company:	Excelian, London (UK).
Client:	**RZB**, Vienna (Austria).
Main technologies and responsibilities in the current job:	**Delivered complex cross-asset MxML functionality front to back on Murex 3.1 for Commodities, Equities, Credit, Derivatives, Foreign Exchange and Interest Rate product trading:**

- Responsible for managing and implementing workflow configuration for various asset classes related to back office processing, settlement instructions, confirmations etc
- Worked closely with front office team leads in respect of automated tools using for pricing of simple and structured derivatives across asset classes via the STB (Structured Trade Builder) emulator using the Murex dealing xml
- Participated in developing a solution for automation of test cases in Murex using Java/Jemmy/Spring technology and covering pricing, trade capture, MxML workflows, limits checking, market data and P&L reconciliation.
- Enhanced and enriched test -cases and regression packs for automation suite for above tools.
- Engaged business users on MxML workflow developments and requirements in post-trade area, as well as supporting users throughout SIT & UAT cycles for same
- Documented Murex deliverables and automated tools use of Murex components for both functional and technical users.

Complementary Training	Murex Back-Office Training (from Murex S.A.S.) Murex Front-Office Training (from Murex S.A.S.)

Other:	**Successful go-live at November, 2010**
Type of business or sector	Murex Consultancy

Dates	From October,2008 to December, 2009
Occupation or position held	**Software Engineer**
Company:	**Murex** in Dublin (Ireland).
Main technologies and responsibilities in the job:	Development of Murex Enterprise Risk Management software framework.

- Maintenance and enhancement of Murex Limit Controller (MLC) software, including risk definition, static data and limits configuration, deal editor trade insertion, calculation and aggregation engine technology and historization. Developed software modules using Java, J2SE, Oracle, Sybase and Perforce.

- Familiar with functional and technical requirements for limit calculation and control, netting , profiling of credit exposure and market risk monitoring across various financial derivatives.
- Understanding of all aspects of configuration in respect of bar (cash flow related), bucket (market related) and profile (projected future mtm and settlement risk)
- Adopted agile methodology when delivering new binaries to clients as well as addressing defects for subsequent releases of MLC.   Undertook rapid prototyping and development to provide new functionality for risk configuration and monitoring within MLC.

Type of business or sector	Software development for Finance and Risk Management

Dates	From January,2008 to October, 2008
Occupation or position held	**Software Engineer**
Company:	TSSG (Telecommunication Software & System Group) in Waterford (Ireland)
Main technologies and responsibilities in the job:	• **J2EE**

- Sandbox project to develop widgets with Java technology (using OOP, frameworks like Spring and the Eclipse IDE. Additionally used JavaScript, JQuery, XML, JSON, and MySQL database.
- Development of a management application with Ruby on Rails and MySQL database (supported by Eclipse as IDE and web technologies like JavaScript and JQuery).

Type of business or sector	Software development

Dates	From November, 2006 to January, 2008
Occupation or position held	**Computer Science Engineer**
Company:	FCC (Espelsa Telecommunication & Control Systems division at Madrid, Spain).
Main technologies and responsibilities in the job:	**Agile Methodology and Test Driven Client Developments**

- Worked with Microsoft Visual Studio, C#, ASP.NET, SQL Server (developing web and desktop application using Web Services, Access Database, .NET Remoting, Object oriented programming, UML, XML, XSL, HTML, etc). Use of 1.0, 2.0.NET Framework.
- Provided Web Portal Documentation using C#, ASP.NET and My SQL to facilitate the upload and download of required documentation, registering key data input by users that an administrator could view and manage subsequently.
- Application framework to handle mission planning for NATO Agency (operations, force activation) through the creation of a desktop application which had web technology embedded. The application iused C#, ASP.NET, SQL Server and.NET Remoting technologies.
- Documentation Portal maintenance with PHP and MySQL technology

Type of business or sector	Defence Software Development

Certifications	
Dates:	December, 2015 Passed ***CFA Level I***
Dates:	September, 2009 ***SCJP 6***: Sun Certified Programmer for the Java Platform
Education and training	
Dates	From 2000 to 2006
Title of qualification awarded	**Awarded Bachelors and Masters in Computer Science Engineering (*specialized in Information Technology*)**
Name and type of organisation providing education and training	University of Castilla-La Mancha (Spain)
Final Career Project Congress in which the Final Career Project has been published	*"SELFA: Software for the teaching and learning of formal languages and automatas"*, designed with technology: J2EE, PHP, JSP, Apache y MySQL. • J.J. Castro-Schez, E. del Castillo, J. Hortolano. "A tool for teaching and learning of Formal Languages and Automata Theory". *XIII Conference days of the University Learning in the Computer Science (JENUI 2007), Teruel, Spain, 20007. http://jenui2007.unizar.es/* • J. Hortolano, J.J. Castro-Schez, E. del Castillo. "SELFA: Software for the learning Formal Languages and Automata Theory". International Technology, Education and Development Conference (INTED 2007), Valencia, Spain, 20007. *http://www.iated.org/inted2007/* • J.J. Castro-Schez, E. del Castillo, J. Hortolano, A. Rodriguez. Designing and Using Software Tools for Educational Purposes: FLAT, a Case Study. IEEE Transactions on Education. Vol. 52, No: 1, 66-74, 2009.
Complementary Knowledge	• ***Programming Languages:*** Java, C, C#, J#, Visual Basic, Ruby on Rails, Python, PHP, JSP, HTML, JavaScript, Prolog, Ada, VHDL, SQL2, SQL3, PL/SQL. • ***Managing systems of data bases:*** SQL Server, Oracle, MySQL, Ms Access. • ***Integrated Development Environment:*** .NET, Eclipse, JBuilder, Visual Cafe, Adagide, PHP Designer, JCreator, Dev-C++. • **Use and administration skills in the next Operating Systems:** Microsoft Windows 2000, XP, NT 4.0, 98, 95, GNU/Linux, MS-DOS. • Standard of quality of information systems ISO 12207. • **Methodologies of development:** Unified Process, Test Driven Development, UML • Other: Text Editor "LATEX".
Personal skills and competences	
Mother tongue	**Spanish**
Other language	**English:** Fluent **French:** Basic
Social skills and competences	Capability of work and motivation. Capability of work under pressure. Ease for team work. Analytical decision-making. Ease for learn new technologies quickly. Results driven and Client Focus.
Other skills and competences	Total availability to travel and to reside in other city.

Driving licence | Spanish driving license -- Type B.

References available upon request