

# Gabriel Viganotti

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## SUMMARY

Professional with an academic background in Computer Science and experience in software engineering, technical leadership and management, designing and implementing information technology systems. Successful in finding solutions to meet the needs of the customer with a strong results orientation.

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## STRENGTHS

- Dedicated, deadline and results driven individual
- Excellent interpersonal communication skills
- Dynamic, proactive and highly self-motivating
- Good problem solving and leadership skills

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## ACCOMPLISHMENTS

- Managed and technically led a development team of 8 ARRIS software engineers, to re-design/architecture the nDVR Fulfillment Manager service, as well as to productize the nDVR Service Manager UI, to be delivered as part of the ARRIS nDVR solution R1.2; meeting the deadlines, with 100% of the features committed for the release. Provided mentorship and managed performance for the team members.
- Designed, implemented and led the development team to add i18n support to ARRIS WHS Moxi AAA software, as well as created the ARRIS WHS Moxi UI localization to Spanish for Latin American market. Successfully delivered and deployed the ARRIS Moxi UI i18n-aware Trial release at TV Cable Ecuador lab premises.
- Designed/architected the Verizon's IPTV UCDS Subscriber Information Server from scratch, prioritizing requirements for two development teams I led, successfully delivering the product's releases meeting the deadlines.
- Re-designed/architected the McAfee's core content scanning engine used for enterprise gateway products to improve performance and to support rules driven scanning, assuring backward compatibility for solutions already deployed.
- Acted as a trainer and mentor of the corporate C++ certification program team, in Motorola Argentina. The program had the "Institute for the Certification of Computing Professionals (ICCP)" as the certifier institution. During the year 2006 five Motorola engineers obtained their certification, all of them with scores higher than 90% and achieving a high level of knowledge in C++ language.
- Developed the official web site of the national council funded to organize the "XVII World Youth Day" event in Toronto, July 23 - July 28, 2002, which brought more than 700.000 young people from all over the world to attend. The website contained up to the minute information including news posts, image galleries and articles in 11 different languages.

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## PROFESSIONAL EXPERIENCE *(see appendix for further details)*

### **Arris Group, Inc. – Córdoba/Buenos Aires, Argentina (Oct-2015 to Apr-2016)**

IPTV

IP Video Solution Architect / Software Engineer Manager

### **Arris Group, Inc. - Córdoba, Argentina (Mar-2015 to Oct-2015)**

Cloud DVR

Software Engineer Manager

### **Arris Group, Inc./ Motorola Mobility, Inc. - Córdoba, Argentina (Sep-2010 to Mar-2015)**

IPTV / TV CPE

Software Engineer / System Analyst

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**McAfee, Inc. - Aylesbury, United Kingdom (Sep-2007 to Mar-2010)**

Content Security Engineering / Content scanning  
Software Engineer / Software Analyst

**Motorola, Inc. - Córdoba, Argentina (Oct-2004 to Mar-2007)**

Assets tracking and management / Autonomic computing applied to telecommunications networks  
Software Engineer / Software Analyst

**MGC Software - Córdoba, Argentina (Jan-2003 to Feb-2004)**

Assets management  
Software Engineer

**World Youth Day Council Toronto 2002 - Toronto, Canada (Aug-2001 to Aug-2002)**

Web development  
Software Developer / Web Team member

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**EDUCATION**

**M.Sc. Degree in Computer Science (five-year degree)**

"Facultad de Matemática, Astronomía y Física" - "Universidad Nacional de Córdoba" - Argentina (2003)

***Thesis Title: Fault Tolerance Strategies and Techniques for Satellite Systems Perturbed by Ionizing Radiations***

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**LANGUAGE SKILLS**

Spanish, Native  
English, Advance  
Italian, Basic

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**PROFESSIONAL CERTIFICATIONS**

**ICCP Expert Proficiency Language Certificate, 2005**

"Institute for the certification of Computing Professionals"  
Passed the C++ exam with a score of 95%.

**IELTS - International English Language Testing System, 2006**

"British Council", "IELTS Australia" & "University of Cambridge - ESOL Examinations"  
Passed the "IELTS [Academic](#)" version of the test with an overall band score of 7.

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**PUBLISHED WORK**

**Failure and coverage factors based Markoff models: a new approach for improving the dependability estimation in complex fault tolerant systems exposed to SEUs**

[Nuclear Science, IEEE Transactions on](#), 2007

<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=4291722>

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**PATENTS/INVENTIONS**

**Virtual Wallet for Customer Premise Equipment Device**

Patent Application #62171350, filed with the US Patent and Trademark Office on 5/6/2015.

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**PERSONAL INFORMATION**

Argentine, born 6/30/1977, Single

Hobbies: home brewing, snowboarding, football playing and traveling.

# APPENDIX

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## PROJECTS HIGHLIGHTS

### ***Cablevisión Argentina IPTV – Arris Group, Inc. (Nov-2015 to Apr-2016)***

Providing System Integration services to Cablevisión Argentina for their “Cablevisión Flow” IPTV solution deployment and launch, which offers (among others) live and linear channels, VOD content and cloud DVR capabilities to its millions of customers. 3<sup>rd</sup> party products were integrated to provide the IPTV solution.

**Role:** Solution Architect and Software Engineer Manager. Coordinating the system integration team provided by ARRIS, including integration tests plans and associated activities, working with the customer and its providers to define the product’s architecture and roadmap, as well as contributing to the definition and documentation of the system architecture. Technically leading software development efforts to implement customized tools needed by the customer as temporary solution was also part of my duties.

**Technologies/Tools:** Task tracking was done with Jira, and some minor software development with Git, Java and Golang.

### ***nDVR – Arris Group, Inc. (Mar-2015 to Oct-2015)***

Re-designing and leading the software development effort of the nDVR Fulfillment Manager service for IPTV playback sessions; as well as productizing the nDVR Service Manager UI to provide the MSO’s system operators the ability to monitor, maintain and/or troubleshoot problems of the nDVR back office services.

**Role:** Software Engineering Manager, and technical leader. Managing and technically leading a development team of 8 Software Engineers, actively participating in all design and architecturing activities. Creation of software development and release plan, tracking the team progress, documenting product specifications, defining priorities of the development tasks, and coordinating the team were part of my responsibilities.

**Technologies/Tools:** JavaScript, NodeJS, MeteorJS, GWT, Contract testing, Linux platform development, Docker containers & micro-services architecture, IBM Rational Team Concert, Jira, Git.

### ***Moxi WHS – Arris Group, Inc. (Aug-2014 to Feb-2015)***

Designing and implementing the internationalization support (i18n) for the WHS Moxi AAA software delivered with the Media Players (20xx/2150) and Media Gateways (5000) family. Localization of WHS Moxi UI to Spanish for Latin American market.

**Role:** Software Analysis, Product Owner proxy and Software developer. Leading the development team (4 developers including myself) and actively participating in all development activities. Tracking the team progress, documenting product specifications and low level design, defining priorities of the development tasks, and coordinating the team were also part of my responsibilities in this team. Responsible for the on-site deployment of the Moxi UI i18n-aware Trial release in TV Cable Ecuador premises and their customer experience center.

**Technologies/Tools:** C++, STL, Linux cross-platform development, cmake, Jira, Bugzilla, Swarm, IBM Rational Team Concert, Perforce.

### ***Dream Gallery UI – Arris Group, Inc. (Jun-2013 to Jul-2014)***

Development of the User Interface based on Arris DreamGallery SDK installed on the VMS1100 and IPC1100 devices deployed with Verizon’s FiOS TV service.

**Role:** Mainly involved in all the activities related to Software Analysis/Product Owner for new features incorporated to the product’s streamline development, coaching the customer to clearly define, finalize and document the requirements and functional specifications. Provide help and guidance to the support/development teams (+15 developers) for defect-fixing activities.

**Technologies/Tools:** JavaScript, SVG, Linux, Python, Jira, IBM Rational Team Concert.

### ***Unicast Content Delivery Service – Motorola, Inc./Arris Group, Inc. (Jun-2011 to Mar-2014)***

Architecting and designing the Verizon’s IPTV video content management solution from scratch. UCDS provides Linear broadcast, Live streaming, Content on Demand and Multi Screen Video Services to end customers on behalf of Digital Media Retailers (DMRs) as a wholesale service by Verizon. As part of this solution, DMR customized storefront services and content protection with DRM technologies were designed and implemented.

**Role:** Acted as one of the System Architects of the project, and Product Owner of the Subscriber Information Server component creating its design/architecture from scratch, prioritizing requirements and defects for the development teams (12 developers split in two teams). Worked as Software Analyst of some the other sub-components of the system, like the License Management Server, Key Management Server and the DRM encryption/packaging solution.

**Technologies/Tools:** Java, WebServices, SOA, JBehave, JUnit, Jenkins, WAS7, Oracle DB, Rational Team Concert.

***IPTV Blackout Management - Motorola, Inc. (Sep-2010 to May-2011)***

Maintenance of the Motorola Blackout Management Solution for AT&T U-verse service which processes 'retune' messages in real time and provides a dashboard for managing the blackouts, including GRC definitions.

**Role:** Worked as Software Analyst and Product Owner proxy between the architect of the product and the development team in Argentina. C++ core developer of the IRD Proxy component which is in charge of decoding the IRD-initiated retune events out of a MPEG2/MPEG4 stream.

**Technologies/Tools:** C++, STL, J2EE, Oracle DB, Linux and Windows development, MS Visual Studio, Eclipse, WAS7, Selenium, IBM Rational ClearQuest, IBM Rational Team Concert.

***Content Scanning Engine - McAfee, Inc. (Sep-2007 to Mar-2010)***

Development and maintenance of software components incorporated into McAfee Gateway and Appliance products around the world, including the core content scanning engine. Integration of gateway products with McAfee Artemis technology thru the McAfee AntiVirus scanning engine SDK.

**Role:** Software Analyst. Development of new features, maintaining software already deployed and bug fixing were the tasks I was mainly involved. Re-design of the McAfee's core content scanning engine to improve performance and to support rules driven scanning, assuring backward compatibility for solutions currently deployed.

**Technologies/Tools:** C++, Linux/Windows cross-platform development, MS Visual Studio, CVS and SVN, Boost, STL, Valgrind, Bugzilla, CppUnit.

***Motonomics project - Motorola, Inc. (Feb-2006 to Mar-2007)***

Project led by Motorola Labs and funded by Motorola Early Stage Accelerator, it was aimed at creating a proof-of-concept autonomic optimization server which is self-governing and uses policy to optimize telecommunications network service based on business rules.

**Role:** Technical leader. Java programming on Eclipse IDE, Linux Gentoo platform setup and maintenance, DB design on Intersystems Caché and MySQL engines. Effort estimations and progress tracking were also activities I was immersed during the project life cycle, all in a dynamic development process with agile methodologies.

**Technologies/Tools:** J2EE/Java SE technologies, EJB's, JBoss AS, Intersystems Caché ORDBMS, MySQL, XML/XSD, XMLBeans, JBoss Rules, Linux Gentoo, JDBC and EJB entity beans, Eclipse, SVN.

***Secure Asset Solution project - Motorola, Inc. (Oct-2004 to Jan-2006)***

Motorola's Visibility Management System (VMS) is an integration platform providing asset visibility information to end-to-end visibility solutions, being able to deliver seamless visibility making use of a multitude of data acquisition, location, sensing and communication technologies to facilitate multi-vendor, interoperable and scalable visibility solutions.

**Role:** I was involved in software design (SDD); use case design and software requirements definitions (SRS); software estimations; C++ and Java development on Linux and Windows platforms; being responsible for a middleware module (SVM) which works as router/gateway for the solution and filter for redundant telemetry information flow.

**Technologies/Tools:** C++, Java SE, Linux/Windows cross-platform development, Eclipse, Rational ClearCase.