

William GONTIER

Digital Transformation Architect

UI/UX - Software Development
Web & Mobile Technologies

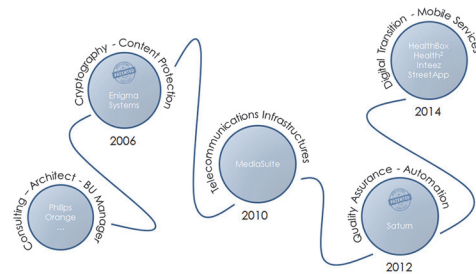
PROFILE

Passionate about information technology and innovation, William dedicated himself in recent years to digital transformation projects for both large corporations and small businesses.

Having solid formal education and a taste for discovering new horizons, William has realized a number of personal and professional projects relating to various industries, including telecommunications, automotive, online sales, health, and finance.

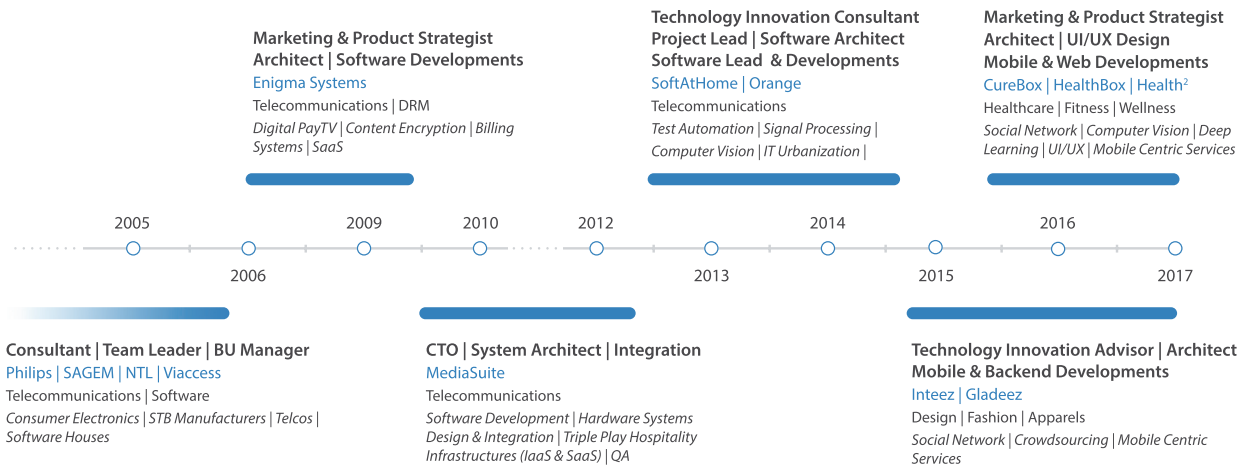
This multidisciplinary and knowledge of the ecosystems of various industries has more than likely helped to inspire numerous innovations of which William was the initiator throughout the course of his career. Some of these have been the subject of international publications and patents, but above all they have mobilized many positive forces and teams in the development of the projects in question.

Overall, carrying out these activities within these structures, as well as having a variety of responsibilities, has allowed William to gain business experience (in areas such as company management, compatibility, staff coaching, commercial and legal negotiation, conduct of merger and acquisition operations, etc.).



Languages: English, French & Spanish

PROFESSIONAL EXPERIENCE



EDUCATION & ACADEMICS

- 1995 **Lecturer & Researcher in Software Engineering & Graph Theory**
Universidad Central de Venezuela (UCV), Caracas, Venezuela.
- 1993 **Applications of percolation theory to the compilation of routing communications in massively parallel machines**
Université Paris XI, Laboratoire de Recherche en Informatique (LRI), Orsay, France.
- 1992 **Columnus Design and Implementation. A processor specialized in the execution of multi-spin algorithms, and some applications of statistical physics**
Ecole Polytechnique, Laboratoire en Informatique (LIX), Palaiseau, France.
- 1992 **M.Sc. in Massively Parallel & Scientific Computing**
Université Paris XI, Laboratoire de Recherche en Informatique (LRI), Orsay, France.
- 1991 **B.Sc. in Artificial Intelligence**
Université Paris XIII, Laboratoire d'Informatique de Paris Nord (LIPN), Villetaneuse, France.
- 1989 **A.A.S. in Electrical Engineering and Industrial Computing**
École pour l'informatique et les techniques avancées (EPITA), Paris, France.

PLACES

lived & worked



CONTACTS

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- 3555 Chemin de la Côte des Neiges - Montreal - Canada

WORK EXPERIENCES



Orange S.A. - SoftAtHome S.A. Technical Counsel - Architect - Principal Soft. Developer orange.fr & wisscom.com



On request of the CEO of SoftAtHome, a subsidiary of the Orange and Swisscom groups, I was entrusted with carrying out a study related to the quality of the group's embedded software. As a result of this study I was entrusted with the creation and direction of a task force aiming to lead the implementation of changes necessary for the improvement of quality assurance service performances, primarily through the automation of activity tests and the evolution of a part of the company's information system.

The original approach to the implementation of the tests campaigns automation in an agile software continuous integration environment consisted of using an Open Source BPMS (Bonita) within an SOA architecture. Various ad hoc software components piloted through web services by the BPMS have been developed to deal with the robots sensors, and other micro-services such as computer vision algorithms which were paramount to run "black box" tests. These latter developments have resulted in the filing of a patent on aspects related to lip-synching. After introducing internal BPMN language training and implementing new testing robots it was possible to entrust some of the team members in charge of the previous manual tests and with good knowledge of the products with carrying out rapid rewriting of automatic testing scenarios despite the initial lack of coding skills within the team.

This solution has been implemented within the Orange group, as well as some of its subsidiaries and subcontractors in France, Belgium and Tunisia.

Main roles & work

- Analysis of malfunctions relating to product quality.
- Establishment of a test automation task force.
- Team and project management (agile software development).
- Change management and team members training.
- Integration of test robots into the company's IS (web services).
- Promotion of the solution within the Orange group.
- Production and presentation of articles at international conferences.
- Production of a patent (in progress).
- Participation in the development of the solution using C#/C++/Java.



Orange S.A. - Viaccess S.A. Business Unit Manager - Products Certification orange.fr & viaccess.com

Under the direction of Mr. Degland I was entrusted in 2001 with the improvement of terminal certification activities at Viaccess S.A., a 100% subsidiary of the Orange Group (formerly France Telecom). This improvement was achieved through professionalization of both teams and activity through the use of tools aimed at ensuring complete traceability of the business process, a reinforcement of the team in terms of numbers and skills in order to supply quality support to company partners and clients.

A review of the software and its documentation was carried out in order to simplify the software integration process in the long term. The provision of abstraction layers for the most deployed hardware platforms contributed to limiting the integration efforts on the part of the partners, de facto leading to a significant gain for Viaccess in terms of support requirements for its technology partners.

During this reorganization the number of industry partners doubled and turnover almost tripled. All disputes were resolved and relationships with partners and clients were placated.

Main roles & work

- Management of a team of 12 individuals.
- Crisis management with partners and clients.
- Implementation and conducting of redesign of the BU processes.
- Implementation of an ad hoc information system.
- Change management and teams training.
- Sensitization of partners and customers to the changes undertaken.
- Recruitments and team building.
- Initiative in rewriting company's embedded software as part of an optimisation of integration activities.
- Contribution to the architecture of new software developments.
- Consultation with commercial and legal services.
- Consultation with management regarding fight against piracy.
- Audits at industrial sites in Asia.



Curebox Inc. Conseil Stratégique - Architect healthsquare.co & healthbox.community



Montreal
2015 - 2017

Curebox's HealthSquare and HealthBox are aimed at promoting adoption of new technologies in the fields of healthcare and wellness.

The platform introduced the concept of digital prescriptions by allowing professionals to recommend that their patients and clients access "Sentinel", an automated followup services platform for consultations (nutrition, physical activity, treatments, blood pressure, etc.).

In order to address the problems of commitment and adherence to treatment within certain groups the scheme has paid particular attention to the quality of interactions between patients and technology whilst strengthening reliability of the collected data. Acquisition of data is therefore exclusively done using sensors (inertial unit), camera, and never resorts to manual input. Many acquisitions are therefore made using photographs taken by computer vision algorithms in order to extract the relevant data. Innovations linked to gamification, rapid feedback, and social interaction have also been implemented in order to improve engagement with stakeholders in monitoring conditions in the long term.

Main roles & work

- Definition of the business model and sources of revenue.
- Definition of strategy and product roadmap.
- Discussion with strategic partners, early adopters, and investors.
- Technological choices.
- Architecture definition.
- Definition of client experiences and user interfaces.
- Mobile application development in Objective C and Swift (iOS).
- Backend software development on Azure platform (.net/C# & C++).



Enigma Systems S.A. - Digital Horizon Co. Ltd. Co-Founder - Chief Technical Officer



Beijing
2005 - 2009

The company Enigma Systems was created following the development of an innovative cryptographic process and validated by patent offices in the United States, the People's Republic of China, and the European Patent Office. As co-inventor of this process in 2002 I joined Enigma Systems in an operational capacity at the end of 2005 after having passed command of my consulting company Erablis S.A. (12 people) to the Médiane Système group.

When I joined Enigma Systems, I carried out a reorientation of the company's strategy from the promotion of its intellectual property under license to commercialisation of products and services. This new strategy consisted of making the most of the company's innovative process by creating a hardware-free content security offer designed for Pay-TV operators in developing countries on satellite, cable and terrestrial networks.

After having established the technical specifications and developed the embedded software I forged technological partnerships with several chipsets suppliers and industrial electronics manufacturers involved in the production of terminals. This initiative led to the integration and availability of the company's technology in the products of two major Chinese manufacturers (Konka and PBI), a Taiwanese manufacturer (Prime), and two Indian factories (Bharrat Electronics and Logic Eastern).

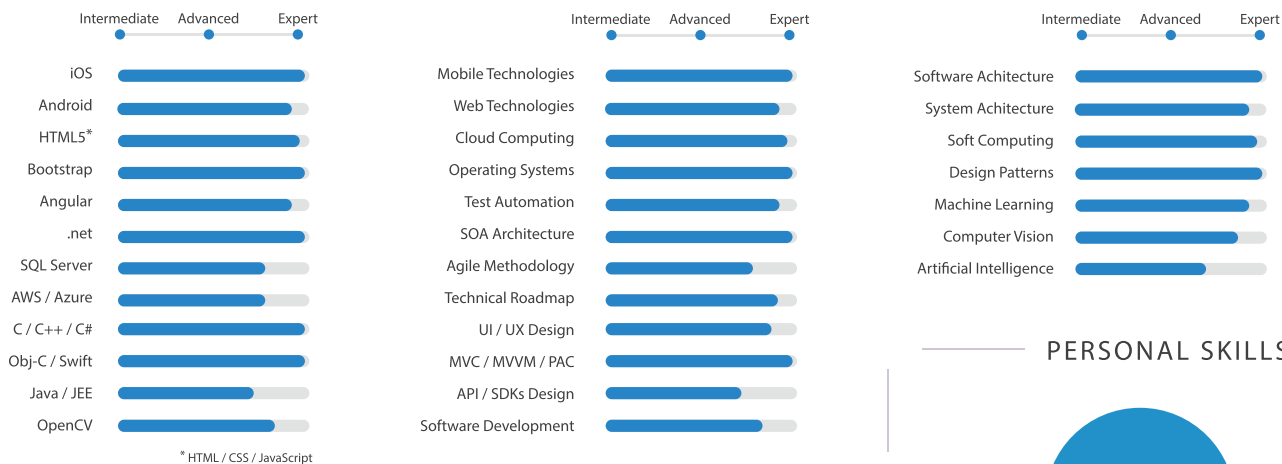
The company and its offer initially received an extremely favourable reception from cable networks in India and the Philippines as well as in Africa with nationwide projects on terrestrial networks in Ghana, Congo, and Gabon. Thanks to these successes the company has been able to market its products and offers in Eastern (Ukraine, Slovakia) and Western (Spain, France, Denmark, ...) Europe after changing part of its services into a SAAS provision and another part of its product offer by integrating its technology with high-end terminals, thanks to the acquisition in 2009 of an interactive application engine, and a financing operation worth €5 million as part of a technological exchange with the company iPanel (Shenzhen, PRC).

The company was subject to a M&A operation in 2012 with its main integration partner Digital Horizon which mainly manages today the technology in Asia and Africa.

Main roles & work

- Inventor of the process of the original patent (US, EU, PRC).
- Technical specifications (protocols and APIs).
- Development of the real-time embedded software in C/C++.
- Establishment of industrial partnerships.
- Management of technology over more than 10 platforms in C/C++.
- Marketing and sale of the solution at a global level.
- Two-way technology transfer operation with a Chinese company.
- Setup of the M&A operation with Conax (Norway), Verimatrix (USA), Logiways (France), and Digital Horizon (PRC).

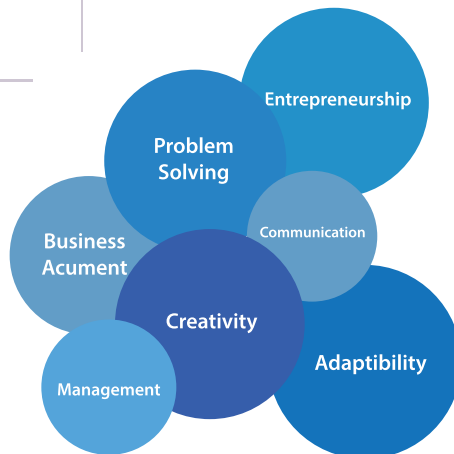
TECHNICAL SKILLS



INTERESTS



PERSONAL SKILLS



PORTFOLIO



StreetApp - France
Crowdsourcing | Automotive | Geo Location

Inteez | Gladeez - France & USA
Fashion | Apparels | E-commerce

HealthBox Community - Canada
Health | Fitness | Wellness

PATENTS

- 2010 **Software application integrity verification method and device**
United States US7739514 B2 / US20060085645 A1
Issued June 5, 2010
- 2009 **意为喝水的时候性的方法和设备**
China & HK ZL2003 8 0107152.1
Issued July 9, 2009
- 2005 **Procédé et dispositif de vérification de l'intégrité d'une application logicielle**
Europe EP1576444 A1
Issued September 21, 2005

AWARDS

- 2012 **Recognized as an innovative company**
MediaSuite - French Scientific Research Agency
- 2009 **Recognized as an innovative company**
Enigma Systems - French Scientific Research Agency
- 2009 **Industrial award «Tremplin Entreprise»**
Enigma Systems - Industrial Award
- 2008 **« 01 Informatique » award**
Enigma Systems - Press Award
- 2007 **« Best-IT » winner at Capital-IT 2004**
Enigma Systems - Capital Risk Award

RECOMMENDATIONS



Guy Baduel - VP R&D at SoftAtHome - France
William is a very smart and dedicated engineer. He could always find innovative ways to solve problems. He is also an obliging person and a great team player. It was really a pleasure to work with him..



Saddek KADJI - Ingénieur automatisé chez SoftAtHome - France
William is one of the most thoughtful, knowledgeable and professional people in software development. He's got a passion for the design and development of innovative software solutions. William's technical knowledge in a wide range of areas such as Software engineering, Big Data, Machine Learning, Digital Signal Processing, Computer Vision, Software integration..... He helped us in designing and implementing Saturn, a state of the art fully automatic functional test environment and to integrate it to our IT infrastructure, thanks to his original ideas and his thorough execution. I have enjoyed working with William and I recommend him very highly.



Franck Hennequin - Senior Test and Validation at SoftAtHome - France
I fully enjoyed working with William who is a brilliant expert, very creative, with perfect abilities for innovation. William is enthusiastic, personable, a very professional people efficient in offering solutions, and you can trust him to complete a project. I appreciate his strong skills in BPMS and Matlab. And I clearly recommend him.



Jean-Thierry Bonhomme - Head of STB UI developments at Canal+ - France
William has the high valuable ability to analyze complex situations and detect risks and progression opportunities. He knew how to conciliate a high level of technology business such as Conditionnal Access with the roadmap and constraints of a Consumer Electronic company such as TPS.



Dr. Franck MORIER - Security Manager at INVIA - France
William is a very great professional, highly competent and motivated. I worked with him during 5 years in the same department. He has strong skills in people management, technology such as Security, STB, Middleware, Conditional Access, TV, content protection. Additionally to that, he has a great expertise in business, product management and company structure and organization. I can recommend him for any company who want improve its business with new idea, new approach. I appreciated its soft skills which have allowing the change with success.



Jacques Bourhis - CTO and Co-Founder at IOTEROP - France
I've worked closely with William a number of years ago and during several years on various areas. William is a multiply-talented person, with a very strong background on technical part but also a very good vision on Market orientation. He's very creative, hard worker and took initiative as soon as he can. This is typically the kind of person that I would enjoy to work again with.



Jean-Michel Arsenian - Head Program Manager at AirTies Wireless Networks - France
I had the pleasure to have William work on a mission in my group. His broad technical knowledge, his extended SW architecture skills and his entrepreneurial spirit made a real difference during that mission. I would reiterate that experience without hesitating if I had the opportunity to.



Zoubir Benleulmi - Director Architecture & Standard Design at Philips - France
It was a pleasure working with William at Philips Digital Networks and having his support to design high-tech digital products. He is a Brilliant Software architect, one of the very few who excel in the entire Software Development lifecycle from architecture definition to software integration and validation. His passion for Complex Systems Development, his teamwork and can-do attitudes are the key ingredients of his efficiency!



Stéphane Duboc - Head of STB UI developments at Canal+ - France
When I join William's team at Viaccess as deputy, I found a professional grade organisation managed with talent by William. His Business wise, technical expertise and pragmatism has been demonstrated again when he created companies in very difficult market. Always a pleasure to work with William. Highly recommended.



Fabien Lloansi - R&D Deputy VP at SoftAtHome - France
William has succeeded in managing extensive changes during the restructuring of our R&D organization. His professional skills were put at use through a progressive deployment approach covering all aspects of the software development cycle. William is a very dynamic manager who always find creative solutions to any arising issues. Strong of many years in the business, he is somebody who embraces change and work hard to make the most of every opportunity. His extreme versatility and ability to adapt to various situations makes him a valuable contributor to the team. I strongly recommend him for any large organizations that are going through changes. His optimism is contagious and makes all the difference.



Ryan Xu - CEO/CTO at iPanel - China
William is an excellent business manager with in-depth knowledge on global market, including Europe, China, Africa, South America, Russia and other countries. William is also a technical expert in digital video. It is nice to do business with William as a partner. We have so many creative ways to resolve problems during the business process.



François Galy - Marketing Vice President at ALI Corporation - Taiwan
William and I worked together for years in Viaccess looking after the technical and business side of STB licensing. We did started a process of optimization easing the integration of innovation such as IPTV, and allowing professionalization of integration and certification services. Already at the time I felt, he was more than an innovator in technology but the root of a real entrepreneur. It was no surprise to me, to see him launching Enigma Systems, a real disruption in CAS market for emerging countries. Always pleased to co work and partner with him, looking forward to see his next products, for sure another disruptive one.



Mario De Vito - Project Manager chez Thomson - France
I really enjoyed working with William when he was Team Manager at Viaccess and I was in charge of the Conditional Access activity of the Thomson Multimedia STB business unit. Viaccess and Thomson where co-dealing on major STB markets and we had to defend our company interests for the same goal : having a stable STB provided on time to the customer. During this period, William made a huge technical work to provide a high quality software library and a huge work on the certification process. With William, I found a fair partner, tough in business but honest, constructive, responsive and credible. We built a strong win-win trust relationship.



Marc Toffanin - High Resolution Rendering Researcher at LIGM - France
William was a great teammate with a lot of experiences to share during my internship. He is definitely a digital video expert and software developer with deep knowledge. Furthermore, he can analyze complex problems, detects risks and knows how to work with constraints. It was a pleasure to work with him.



Rocky Ma - Managing Director at Beijing Qiaozhiren - China
I worked together with William Gontier for several projects that were very successful. And William himself is a project and marketing oriented person who did excellent work in these projects and very professional in managing the business of Enigma Systems.



Francisco Marchena - Ingeniero de Sistemas, PMP, ITILv3F - Colombia
William is one of the most resourceful and capable software architects I've worked with. As a technical team leader William always provided clear directions and efficient ways to get things done. Also I can say we certainly learned a lot from him, since he's a person willing to share his vast knowledge and build team.

PUBLICATIONS

