

# Alexandre Bacco

27 years-old • French

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## Smart City Engineer

### Work Experiences

Since 2015	<b>Smart City Freelance Consultant</b>	Singapore
	<p>Main mission with a SME in the smart city business: fixing issues in the passenger counting system (a stereoscopic sensor and a controller) for the 150 SMRT double-deck buses.</p> <p><b>Assignments:</b> Develop the controller hardware and firmware, manage technicians to survey buses, analyze collected data to find issues and demonstrate their solution.</p> <p><b>Skills developed:</b> Sensor tuning, communication between devices, data analysis.</p>	
Since 2012	<b>Co-Founder and Chief Technology Officer – Caissin</b>	France & Singapore
	<p>Founder of a startup selling a high quality customized box containing long-lasting wines.</p> <p><b>Assignments:</b> Make technology drive business and ideas, build and maintain all technical topics around our e-commerce website and logistics flows, and manage our digital presence.</p> <p><b>Skills developed:</b> Entrepreneurship, business intelligence and strategy, decision making.</p>	
2013 – 2014	<b>IT Project Engineer – Dalet</b>	Singapore
2 years	<p>Analysis of customers' needs and configuration of Dalet software solution, equivalent of an ERP for large media-oriented companies in all Asia (Singapore, HK, South Korea, Vietnam, Thailand).</p> <p><b>Assignments:</b> Manage projects, ensure project coordination between transversal teams, train customers, and manage project issues. Every day work with customers' users to ensure business requirements are met and follow up on acceptance tests.</p> <p><b>Skills developed:</b> Customer-oriented thinking, IT project management, issues management.</p>	
2012	<b>Smart City Engineer – SEMIACS</b>	Nice, France
1.5 year	<p>The smart city project I worked on provides a technical solution to the problem of the low turnover of parked cars in streets. Today, it is widely used by drivers and police in the city.</p> <p><b>Assignments:</b> Deploy, tune and test 800+ magnetic sensors, the needed mesh wireless network and 60+ street kiosks in a high-density urban area, manage technician teams, lead many subcontractors to reach project expectations, write public tenders.</p> <p><b>Skills developed:</b> Project management, smart city business acumen, working in the highly constrained environment of the old city, subcontracting, electrical and civil engineering.</p>	
2011	<b>Project Engineer – Bolloré Group</b>	Singapore
6 months	<p>Internship in the Project Department in charge of important mining project in South-East Asia.</p> <p><b>Assignments:</b> Write responses for tenders, manage good streams, set up permit application for dangerous goods transportation, follow-up and report to support departments.</p> <p><b>Skills developed:</b> International management, work with distant teams, project planning, tenders.</p>	
2010	<b>Financial Auditor – Ernst &amp; Young</b>	Paris, France
6 months	<p>Internship on key accounts audits in the industry sector: Renault, Convertteam, Mann Hummel.</p> <p><b>Assignments:</b> Understand and analyze processes, identify and assess risks, prepare technical reports, use audit procedures according to Ernst &amp; Young methodology.</p> <p><b>Skills developed:</b> Accounting skills, account analysis, team working, rigor.</p>	
2003 – 2007	<b>Developer – OpenClassrooms – <a href="http://www.openclassrooms.com">www.openclassrooms.com</a></b>	Rouen, France
4 years	<p>During my free-time, development of an e-learning website, building up an active community by offering interactive content and applications. Today, it is the first European e-learning platform.</p> <p><b>Assignments:</b> Website interactive development, servers purchasing and configuration.</p> <p><b>Skills developed:</b> Team working, customer needs, working under pressure.</p>	

## Education

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2008 - 2012	<b>Master of Sciences in Engineering</b> - Ecole Centrale Lyon French equivalent of a Master's Degree at the Ecole Centrale Lyon, one of the top-five French Graduate School of Engineering. <b>Majors:</b> Statistics, Computer Science, Matter and Materials, Mechanics and Energetics, Electrical Engineering, Social Science, Communication. <b>Options:</b> "Transportation, Traffic and Environment" and "Business Development Engineer". I also seized the opportunity offered by a partnership between my engineering school and the <b>University of Lyon 2</b> to take additional courses: - <b>Master of Research in Work Psychology</b> , option "Cooperative Work – Networking". <b>Majors:</b> Work Psychology, Work with ICT, People Management, Network in Organizations. - <b>Associate of Sciences in Economics and Management</b> . <b>Majors:</b> Micro and Macroeconomics, Management, National accounts, Management Accounting and Business Accounting.	Lyon, France
2005 - 2008	<b>« Classe préparatoire »</b> Intensive undergraduate studies preparing for the national competitive entry examinations for French schools of engineering. <b>Majors:</b> Advanced Mathematics, Physics and Applied Sciences.	Rouen, France
2005	<b>Scientific « Baccalauréat »</b> French equivalent of <b>A-level</b> , with honors.	Rouen, France

## Languages and skills

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<b>French</b>	Mother tongue.
<b>English</b>	Fluent - TOEFL iBT: 100/120.
<b>IT</b>	Excellent IT skills: <ul style="list-style-type: none"><li>• Fully competent in computer development; strong interests in ICT;</li><li>• Fully confident in Windows, Linux and Microsoft Office/Project; confident in Matlab.</li></ul>
<b>Driving</b>	Full, clean license
<b>First Aid</b>	Emergency First Response

## Interests

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<b>Sports</b>	Tennis, running (half-marathon and counting), handball, skiing.
<b>Humanitarian work</b>	<ul style="list-style-type: none"><li>• <b>4L Trophy 2010:</b> rally of 6000km from <b>Paris to Marrakech</b> through the Morocco desert, driving a Renault 4L, aiming at distribute school and sport materials to poor children. The 6000€ budget was funded by sponsoring;</li><li>• <b>Volunteering</b> during the summer 2010 (2 months) in <b>Cape Town, South Africa</b>, in a local NGO: building sustainable houses to replace thin shacks in townships. I worked with South-African teams directly on the houses, assembling blocs, building roofs, painting walls.</li></ul>
<b>Writer</b>	Writing and publication of the very first book on the web framework Symphony2 (ISBN 979-1090085428). In 2014, adapting the book into a MOOC on the e-learning platform OpenClassrooms, in collaboration with SensioLabs, creator of Symphony2.