

Alessandro Balzano

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Sex	Male
Nationality	Italian
Date of birth	1993, February 11th

I am looking for a position as: **Software Developer/Engineer**

Work Experience

09/2017 - Current	Analyst Consultant
	Capgemini S.A.
Description	<p>The tool developed in this project helps organizations to track their teams' maturity about a certain topic (agile, cybersecurity...) through periodic questionnaires. If the team's maturity is not good enough, the tool is able to suggest actionable tips to improve and fix the team's processes.</p> <p>In this project, the team is using react, flux and typescript to build the frontend side of the web application. Gulp is used as a build system: every time a change is saved on git, Jenkins runs gulp to create a Docker image of the application.</p>
Business or sector	Services
07/2016 - 09/2017	Analyst Consultant
	General Electric Nuovo Pignone (Capgemini S.A)
Description	<p>The initial project started with the creation of an application, running on the Predix cloud platform, for <u>real-time monitoring and historical work data analysis of CNC machines</u>. From that initial core, the web-app was expanded to become the centre of the whole plant's activities, such as work shifts management and raw data exports for offline analysis.</p>
Role	<ul style="list-style-type: none">• Developed the first core of the web application, creating Google Polymer.js web components in JavaScript and CSS3• Mentored new developers about Polymer.js and the GE Predix platform• Introduced unit/integration testing using jasmine and web-component-tester• Created small microservices in Python to support Java and data analysis teams
Business or sector	Manufacturing

04/2015-07/2016	Analyst Consultant
	Leonardo S.p.A (Capgemini S.A)
Description	Support and development activities for the "c76 naval artillery" system development teams, that resulted in the creation of simulators and debugging tools. These activities enabled the groups to cut the debugging time - due to a new remote logging system and an ad-hoc porting of a control system from an RTOS to Linux-, and the integration time between different systems , both internal and built by third parties (c76 reference simulator, HCI panels simulator)
Role	<ul style="list-style-type: none"> • Created custom remote logging system and real-time visualization tools with Qt4, Qt5, ZeroMQ, POCO • Proposed and implement unit/integration testing using C++ (googletest, suzaha) and Python (pyserial, pytest) • Supported the implementation of the c76 reference simulator using Qt5
Business or sector	Aerospace & Defense
04/2014-04/2015	Analyst Consultant
	Leonardo S.p.A (Capgemini S.A)
Description	The project is about the prototype of a weapon system designed to be rapidly deployed on cargo military aircraft (such as C27J and C130), to be used to counter asymmetric threats and to support infantry troops, known as OTO GUNSHIP. The weapon system has its own Electro-Optic FCS (fire control systems) that interfaces itself with a GPS, a 360-degrees camera and a 20mm Gatling Gun.
Role	<ul style="list-style-type: none"> • Developed the fire control system -running on a x86-based PC104- in C++ (Qt4, easyloggingpp) on Linux Gentoo • Implemented tools to extract and analyze logs data in Python (xlwt)
Business or sector	Aerospace & Defense
10/2013-04/2014	Analyst Consultant
	European Space Agency (Capgemini S.A)
Description	The project revolves around maintaining and developing new features for the travel management system (MAS) and payment (MOS) and the documentation system for storing and sharing Word/PDF documents across departments (ROCADE)
Role	<ul style="list-style-type: none"> • Maintenance and new features development on the travel and payment management systems, on both frontend (Javascript) and backend (PL/SQL for Oracle 10g) • Porting of documentation sharing application (Perl CGI scripts served by Apache) from Solaris to Suse Linux 11
Business or sector	Aerospace & Defense

Education and training

2007-2012	Informatics Industrial Engineer (EQF Level 5)
	ITIS Capellini-Sauro – La Spezia, Liguria, Italy
	Technical high school for <i>periti informatici</i> (informatics industrial engineers). Graduated with 98/100 with a project about the Travelling Salesman Problem. I learnt about algorithms (C++, Java), databases (MySQL), web programming (PHP, HTML, CSS) and networking. Attended classes about embedded software development.

Personal Skills

Languages	
Italian	Native
English	Professional working proficiency. Certified B1 (Cambridge Preliminary English Test)
Organizational skills	I am able to organize my own work, and take ownership for the result of my work and problems in the projects I am working on. I consider myself able to mentor teammates on new technologies.
Achievements	5 th place in the 2012 edition of the National Turing Machine Competition – organized by the CS department of Pisa University – winning one year of free attendance to CS courses.
	2 nd place in <i>Advanced Manufacturing</i> at Minds+Machine hackathon - hosted by GE at Berlin in June 2017 – with <i>DelayHunter</i> , an application that analyzes production data and finds delays in manufacturing processes.