Michele Piffari

Freelance software engineer
@QuanticInnovations

Bio ─────────────

11 Settembre, 1996

Gromo, Bergamo

Professional Engineering License BG – sec. A – Numb. 4889

Personal portfolio

Italian citizenship

European driving license B

Contacts ─────────

michele.piffari@gmail.com

m.piffari@pec.it

ID: michele.piffari

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Languages ─────────

🇮🇹 Italiano   ● ● ● ● ●

🇺🇸 Inglese   ● ● ● ○ ○

Working Experiences

May 2018 – Now	**Quantic Innovations**	Start Up

Actually working as external collaborator with role of developer and project management of projects related to mobile applications both for iOS and *cross-platform*. The applications developed is related to the management of BLE and NFC communications towards electrification systems based on Modbus industrial protocol.

At the same time I'm developing Windows App (based on winforms) on .NET framework: this apps are used as a configuration interface for custom low level embedded systems. I'm involved also in handling and managing AWS lambda and AWS IoT Core structure for an IoT project.

March 2016	**Istituto comprensivo di Rovetta**	Secondary school

I fellow, for a short period, the role of substitute teacher at the lower secondary school of Castione della Presolana, in the mathematical/scientific didactic areas.

2012 – 2017	**Orobica Tecno Impianti**	Chemical plant maintenance

This first experience helped me to get in touch with the dynamics of work and to learn some manually action, such as thinking, mounting and fixing pipe plants.

Education

Studies

2018 – 2021	**Master degree in Computer science**	University of Bergamo
	Grade: 110/110 with honors	

During my master degree, I touched some different areas of the Computer Science area: from electronics to automatic control, passing through modeling and control of mechatronic and robotic systems. I also attended courses related to identification of models, analysis of data and the sphere of Artificial Intelligence with a relative part to IT Security.

2015 – 2018	**Bachelor degree in Computer science**	University of Bergamo
	Grade: 103/110	

The bachelor degree was characterized not only by solid training basic (mathematics, physics, chemistry), but also of in-depth studies in informatics (Informatics, Informatics 2, Databases and Web, Software Engineering) and in the areas of automation, electronics and networks telecommunication.

2010 – 2015	**High school diploma as electronics technician**	ISISS Valle Seriana
	Grade: 100/100	

The five years study path, allowed me to acquire technical knowledge related to theoretical part of electronics and control. I made also experience on design and construction of electronic circuits, using laboratory instruments (Multimeters-Power supplies-Oscilloscopes-Function generators). In the last part of the studies, I acquired knowledge related to the Arduino platform and open source robotic systems.

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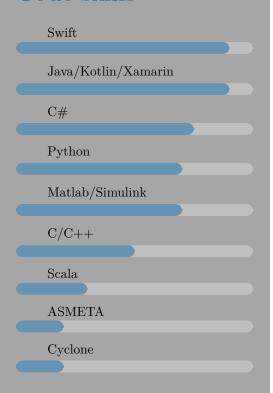Freelance software engineer
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About me ————

On March 2021 I have completed my master's studies at the faculty of computer engineering (LM-32) at the textbf University of Bergamo and I am pursuing a collaboration as textit software engineer at textbf Quantic Innovations.

This double path, which lasted about 3 years during studies, lead me to create now both professional skills and a sense of awareness that what I am doing is what actually arouses interest and curiosity in me and that I therefore always want to carry on, with greater determination.

In my free time I like to live an outdoor life, hiking and cycling on the mountains that surround me every day.

Code skills ————

Swift

Java/Kotlin/Xamarin

C#

Python

Matlab/Simulink

C/C++

Scala

ASMETA

Cyclone

Technology skills ——

BLE   NFC   Open CV   VSTS
Modbus   GitHub   XML/JSON
AWS lambda   AWS IoT Core

Summer School

Agosto 2019	**Introduction to RL**	SDU - Denmark
	Intensive 2 weeks course of *Introduction to reinforcement learning for robotics* at *Southern Denmark University - SDU*.	

Extra courses

Novembre 2020 - Marzo 2021	**HC-Lab3**	University of Bergamo
	Course lasting 6 months, which had the aim of promoting the culture of innovation and entrepreneurship in the context of Aging Population and Silver Economy. This course allowed me to use some of the most common tools in entrepreneurship, such as Bussines Model Canvas, and A/B Test.	

Projects

2020-2021	**Techniques for monitoring respiration during mechanical ventilation via an artificial neural network**	University of Bergamo
	Analysis and research on how CNN is used as a support for the MVM pulmonary respirator control cycle, in a context of adaptive ventilation.	
2018	**Setup of the control system of an industrial manipulator robot**	University of Bergamoo
	Analysis and research on how to use and set in motion an anthropomorphic manipulator of the ABB family (ABB IRB 120), using proprietary software (RobotStudio).	
2015	**InMoov**	ISISS Valle Seriana
	Realization of the In-Moov open-source robotic project as a presentation project for the oral exam.	

Distinction

2011–2015	**Io e Lode**	Confindustria Bergamo
	Participation for four consecutive years at project "Io e Lode"	
Aprile 2015	**Alfieri del Lavoro**	Milano
	Conference *Alfieri del Lavoro*: "Ripartire dal sapere per far ripartire il paese" – sala Montanelli "Corriere della Sera" site – 11 aprile 2015	
2014	**Media istituto**	ISISS Valle Seriana
	Best average grade of all school during A.S. 13/14	
2014	**Electronics competition**	Brescia
	Take part to National electronics competition.	

October 13, 2023   **Michele Piffari**