



# 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



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Michele Piffari

## 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, BLE Mesh, USB 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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## About me

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

BLE Mesh

NFC

WinForms application

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

**HC-Lab3**

University of Bergamo

2020 - Marzo  
2021

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 Business 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 Bergamo

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 16, 2024

Michele Piffari

I authorize the processing of personal data contained in my curriculum vitae exclusively in the context of the procedure for which this declaration is made, based on art. 13 of Legislative Decree 196/2003 and art. 13 of EU Regulation 2016/679 concerning the protection of individuals with regard to the processing of personal data.