



# Michele Piffari

Freelance software engineer  
@QuanticInnovations

## Bio



11 Settembre, 1996



Stezzano, 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

Currently working as an external collaborator with the role of developer and project manager on projects related to mobile applications for both iOS and *cross-platform*. The applications developed are related to the management of BLE, BLE Mesh, NFC, and USB communications for electrification systems based on the Modbus industrial protocol.

In addition to mobile development, I recently started working on the development and management of an embedded BLE system based on an *STM32* chip for device operation management and a *BGM123* chip (from Silicon Labs) for managing external communication via BLE and GATT. This project has allowed me to begin gaining familiarity with development environments in C for STM32 and SimplicityStudio. At the same time, I'm developing Windows apps (based on WinForms) on the .NET framework. These apps are used as configuration interfaces for custom low-level embedded systems that implement custom serial protocols. I'm also involved in handling and managing AWS Lambda and AWS IoT Core structures for an IoT project.

March 2016

### Istituto comprensivo di Rovetta

Secondary school

I served as a substitute teacher for a short period at the lower secondary school of Castione della Presolana, in the mathematics and science subject areas.

2012 – 2017

### Orobica Tecno Impianti

Chemical plant maintenance

During the summer school break, I worked as a helper in the maintenance of a chemical/aerial plant. This first experience helped me to get in touch with the dynamics of work and to learn some manual tasks, such as threading, mounting, and fixing pipe systems.

## Education

### Studies

2018 – 2021

### Master degree in Computer science

University of Bergamo

**Grade: 110/110 with honors**

During my master's degree, I explored various areas of Computer Science, ranging from electronics to automatic control, and including modeling and control of mechatronic and robotic systems. I also attended courses related to model identification, data analysis, and the field of Artificial Intelligence, with a focus on IT Security.

2015 – 2018

### Bachelor degree in Computer science

University of Bergamo

**Grade: 103/110**

The bachelor's degree program included not only a solid foundation in fundamental subjects such as mathematics, physics, and chemistry, but also in-depth studies in informatics (Informatics, Informatics 2, Databases and Web, Software Engineering), as well as areas such as automation, electronics, and telecommunications networks.

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

In March 2021, I completed my master's studies in computer engineering (LM-32) at the **University of Bergamo** and began a collaboration as a *software engineer* at **Quantic Innovations**.

This dual path, spanning approximately 3 years during my studies, has enabled me to cultivate both professional skills and a profound sense of fulfillment. It has reinforced my awareness that engaging in work that sparks my interest and curiosity is what I truly enjoy and wish to pursue with unwavering determination.

In my free time, I relish an outdoor lifestyle, indulging in activities such as hiking and cycling amidst the mountains that surround me daily.

## Code skills

Swift

Java/Kotlin/Xamarin

C#

Python

Matlab/Simulink

C/C++

Scala

ASMETA

Cyclone

## Technology skills

BLE BLE Mesh NFC Open CV

Azure devops 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

The course, lasting 6 months, aimed to promote the culture of innovation and entrepreneurship within the context of the Aging Population and Silver Economy. It provided me with the opportunity to utilize some of the most common tools in entrepreneurship, such as the Business Model Canvas and A/B Testing.

## 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"

April 2015

**Alfieri del Lavoro**

Milano

Conference *Alfieri del Lavoro*: "Ripartire dal sapere per far ripartire il paese" - sala Montanelli "Corriere della Sera" site - 11 april 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 17, 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.