

Nicola Marchiotto

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Profile

I am Nicola Marchiotto, a Robotics and Software Engineer. Computer Science is what I am good at, and it is part of my daily routine. In my free time I like to work on various projects, which I use as starting points to explore always something new. I am an amateur soccer player and an occasional reader who takes an eternity to finish a book.

Experiences

Exor International

Verona, IT

▸ **Software Engineer**

2023 – Present

Development of solutions to perform automatic quality assurance in the company production lines. Machine building, optical inspection, ML applications, LLM, software integrations, fault detection.

ML Object Detection **LLM** **Visual Inspection** **Docker** **CoDeSys** **OPC UA** **OpenCV** **C++** **Qt** **Docker** **CoDeSys**
OPC UA **OpenCV** **C++** **Qt**

Altair Robotics Lab

Verona, IT

▸ **Research Fellow**

2022 – 2023

Refinement of a prototype for robot assisted vertebroplasty. Implementation of the software for performing robot registration, planning the surgery and controlling the hardware.

▸ **Student Intern**

2022

Medical Image Analysis **Robot-Image Registration** **Robot Control** **Trajectory Planning**

EDALAB s.r.l.

Verona, IT

▸ **Software Developer**

2021 – 2022

Development of Web and Mobile applications in the IoT and HealthCare environments using React and React Native frameworks.
Use of Bluetooth and BluetoothLE communication protocols for Android app development.

React **React Native** **JavaScript** **TypeScript** **Android BLE**

Skills

Strengths

- Robot Control, Machine Learning, Computer Vision, Robot Motion Planning, Software and System Integration, Mobile Robotics, Physical Human-Robot Interaction, Control Design, Software Development

Programming languages

- Python, C++, Qt, Matlab, C, Java, MySql
- JavaScript, TypeScript, ReactJs, React Native

Languages

- Italian - Mother tongue
- English - B2

Education

University of Verona

Verona, IT

- **Master's Degree in Computer Engineering for Robotics & Smart Industry** **110L/110** 2020 – 2023

Thesis: Development of Software for Planning a Mini-Invasive Robot Assisted Vertebroplasty

- **Bachelor's Degree in Computer Science** **109/110** 2017 – 2020

Thesis: A Smart Glasses Application for the Prevention of Freezings in Patients Affected by Parkinson

Liceo Scientifico G. Galilei Verona

Verona, IT

- **High School - Curriculum: Scienze Applicate** 2012 – 2017

Projects

A virtual coaching platform to support therapy compliance in obesity

Turin, IT

In 2022 IEEE 45-th COMPSAC

2022

- Project in which I developed a React Native app for collecting medical data of patients affected by obesity. *Bissoli L., Bonacina D., Dalla Riva N., Demrozi F., Jereghi M., Marchiotto N., Perbellini G., Pernice B., Pizzocaro E., Pravadelli G., Recchia G., Sacerdoti A., Turetta C.*

CERlecon

CENTRAL EUROPE Regional Innovation Ecosystems Network

2019

- European project I applied in 2019. The program focused on "Improving entrepreneurial skills and competencies to advance economic and social innovation in the regions of Central Europe". Experience which gave me the opportunity to go to the Czech Republic and discuss entrepreneurial possibilities in different states with my colleagues from other European countries.