Nicola Marchiotto

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👤 Profile

I am Nicola Marchiotto, a Robotic 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. My goal is to get better at Electronics and Mechanics, the fields in which I lack more expertise. 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 aimed to improve the quality assurance processes of the company production lines. Software development, automatic optical inspection, ML applications

`ML for Optical Inspection` `Docker` `CoDeSys` `OPC UA` `JMobile` `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 the 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 Controlling, Machine Learning, System Integrator, Control Design, Mobile Robotics, Computer Vision, Robot Motion Planning, Physical Human Robot Interaction, Software Developer

Programming languages

▷ Matlab, Python, C++, C, Java, MySql
▷ TypeScript, JavaScript, 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.*

CERIecon
CENTRAL EUROPE Regional Innovation Ecosystems Network
2019

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