DR. FRANCESCO GROSSI

Robotic and Automation Engineer

CONTACT

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SKILLS

Programming

- C
- C++
- Python
- Apple Script
- LaTeX
- R
- Assembly

Operating Systems

- Linux/Ubuntu
- MacOS
- Windows

Software & Tools

- Matlab and Simulink
- Telemetries'analysis
- Mathematica
- ROS (Robot Operating Sys)
- CodeComposer
- Qt Creator
- Oracle
- Microsoft Office
- Doors
- Visio
- Big Data and Logs analysis
- Robots HW knowledge

Languages

- Italian-Mother tongue
- German-A2
- English-C1
- French-A1
- Spanish-A2

CERTIFICATES

Safe Driveline course

WHO I AM

Hello! My name is Francesco Grossi and I was born in Sora, Italy, on 15/07/1995. After pursuing my Bachelor Degree in Electronic Engineering, I achieved the Master Degree in Robotic and Automation Engineering, which I really appreciated. I have a nice attitude for Control Systems but I am also strongly guided by a huge curiosity, which leads me to be interested in multiple fields, as you can see in my working history. I love technology and innovation, milestones for my ideal job.

WORKING HISTORY

09/2021- Current time
Abbott
EMEA

Automation Engineer EMEA

Specialist at operations in EMEA area: trouble-shoot, develop and validate the robots involved in an automation process for the blood analysis and transportation. A knowledge of electrical boards,automation systems, robots mechanic and programming codes is required.

12/2020 - 09/2021
Capgemini S.p.A.
Leonardo S.p.A.
La Spezia

Software Engineer

Electric motor control: implementation and testing. C++ language, QtCreator and Oracle interfaces.

02/2020 - 09/2020
Ferrari GES S.p.A.
Maranello (MO)

Master thesis intern

Handling and Performances department. Team working with the Ferrari's Engineers. The aim was to study the stability of the Formula 1 vehicle in close-to-limits scenarios.

EDUCATION

Dec 2023 - Current time
Rome Business school

Master in Artificial Intelligence

- After winning a scholarship per merit, Master started with basic courses to focus on Python, Data Science and Machine learning. Interesting bootcamp in Silicon Valley is on plan.

Jan 2018 - Sept. 2020
University of Pisa, Pisa (PI)

Master's Degree in Robotics and Automation Engineering

- Course mainly focused on classic control system theory and robotics. It includes courses on design techniques for the analysis and control of discrete event systems, non-linear systems, robust control, robots control, path planning and multi-agent systems.
- Final grade 109/110

Sept 2014 - Nov. 2017
University of Pisa, Pisa (PI)

Bachelor Degree in Electronic Engineering

- The course was focused on the analogical and Digital world of Electronic systems, with a strong study of several transistors.

2009 - 2014
"Classical"High-school
V.Simoncelli Sora (FR)

Diploma

+ SOFT SKILLS

- **Team leading** disposition gained through university projects and the several sport activities (football, volleyball, swimming, padel) which I have been practising for years, as a fervent lover of sports.
- **Teamwork** ability, developed by working with teams of very experienced Engineers.
- A strong attitude to the **problem solving** developed thanks to a heterogeneous university course, which covers many scientific disciplines and the research activity carried out within it, and to the high mental elasticity in the Ferrari experience. **Trouble-shooting** was my main task in the Abbott medical world.
- Management of resources and **organization of work**, acquired during the off-site university career.
- **Fast-learning ability**, developed thanks to the last two jobs, out of the robotic environment. Thank to Abbott job, I was able to meet several cultures and to fit myself in multiple environments. In each of them, I had to show leadership, since I am an Automation Specialist, and to work under big pressure as I did in Ferrari.

UNIVERSITY PROJECTS

- Design of an autonomous precision landing system of an UAV drone using vision on markers.
  C++ ROS MATLAB & Simulink Linux Aruco Markers Px4 Autopilot Raspberry Pi
- 6 DOF serial manipulator control.
  MATLAB & Simulink
- Design of a dual-steering ground vehicle (front and rear) model.
  MATLAB & Simulink
- Emotion recognition based on biomedical signals using MLP and RBF neural networks.
  MATLAB Deep Learning Toolbox
- Telemetry studies and behavior of a Formula 1 vehicle through data processing in the Wolfram Mathematica environment
  Mathematica
- Implementation a self-driving algorithm using waypoints of an underwater UAV.
  MATLAB & Simulink
- Time series analysis with the ”R” software.
  R
- Simulation of an emergency landing system for UAV drones in case of loss of commands by the user.
  PsPice Matlab