Francesco Giovinazzo

14 / 07 / 1996

PERSONAL PROFILE

I'm a Robotics Engineer and I'm particularly interested on the research field of Human-Robot Collaboration

DIGITAL SKILLS

Software development:

- **C & C++**
- **Python**
- **Matlab & Simulink**

3D modeling softwares:

- **Creo PTC & Fusion360**
- **SolidWorks**

Others:

- **Microsoft Office**

LANGUAGES

Mother tongue:

Italian and **Portuguese**

Other languages:

English oral and written (**C1**)

French oral and written (**B1**)

COMMUNICATION SKILLS

Good communication and relational skills gained through several multicultural experiences.

During the studies in Robotics Engineering I gained cross-cutting skills such as: public speaking and scientific writing.

ORGANIZATIONAL SKILLS

Good organizational and management skills gained through individual and group academic projects.

I always combined the engineering training with work under an independent contractor agreement.

PROFESSIONAL GOALS

PhD in **Robotics Engineering**

EDUCATION HISTORY

11 / 2021 – PRESENT

PhD in Robotics Engineering
Università degli Studi di Genova

- Investigation of control techniques for safe Human-Robot Collaboration
- Design, implementation and testing of a new sensing technology, based on networks of proximity and tactile sensors providing a unified proxi-tactile perception of the environment for collaborative robots.

10 / 2018 – 12 / 2020

Master Degree in Robotics Engineering
Università degli Studi di Genova

- Consolidation of the basic engineering background and study of Advanced Robotics disciplines.
- Thesis: "***Vision-based control strategy for safe Human-Robot Collaboration***": Design, implementation and testing of a control architecture for a Human-Robot Collaboration automotive application.

09 / 2015 – 10 / 2018

Bachelor Degree in Biomedical Engineering
Università degli Studi di Genova

- Basic engineering training and deepening of biomedical disciplines.
- Thesis: "***Reduction of a biologically-inspired model of Central Pattern Generator***".

WORK AND TEACHING EXPERIENCE

06 / 2021 – PRESENT

Teacher assistant
Università degli Studi di Genova

- Two Master degree courses: "***Modelling and Control of Manipulators***" and "***Robot Dynamics and Control***" .

06 / 2021 – 10 / 2021

Research Fellow
Università degli Studi di Genova

- Study of control techniques for Human-Robot Cooperation.

12 / 2020 – 04 / 2021

Internship
Leonardo Sistemi Integrati S.r.l.

- Training on underwater acustic fundamentals and software development for underwater systems

PUBLICATIONS AND AWARDS

2021

Awarded with "Premio CEI - Migliore Tesi di Laurea" by Comitato Elettrotecnico Italiano for the Master Thesis titled: "Vision-based control strategy for safe Human-Robot Collaboration"

2022

Grella, F., Canale, R., Giovinazzo, F., Albini, A., Cannata, G. (2023). Tactile-Based Human-Robot Collaboration: A Performance Analysis. In: , et al. Advances in System-Integrated Intelligence. SYSINT 2022. Lecture Notes in Networks and Systems, vol 546. Springer, Cham. https://doi.org/10.1007/978-3-031-16281-7_41