

PERSONAL INFORMATION **Silvia Proia**

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Date of birth 23/10/1995 | Nationality Italian

## PERSONAL STATEMENT

I am a person ready to take on any challenge that is presented to me, thanks to a great desire to do and learn. I can guarantee motivation to complete required tasks autonomously and also in group activities. I am also a determined person, oriented to problem solving and trained to handle stress. I am available to work in Italy and abroad.

## EDUCATION AND TRAINING

**Classical High School Diploma “Galileo Galilei” Piedimonte Matese (CE)**

Graduated: 2014

Final Grade 100/100 and I was also selected for the Prize “Alfieri del lavoro” as best student

**Bachelor’s degree in “Logistic System Engineering for Agrofood Industry”  
Class L-9 Engineering**

At University of Foggia, Polytechnic University of Bari partner

Graduated: 21/07/2017

Final Grade 110/110 cum laude. Graduation thesis on “Numerical and experimental analysis of dynamic oil valves”

**Internship in Energetic System**

Focused on the study and analysis of the performance of the dynamic valves, through a numeric simulation using CFD software and experimental proofs on a dynamic oil system

**Master’s degree in “Mechanical Engineering”**

At New York University Tandon School of Engineering

Graduated: 20/05/2020

GPA 3.952/4

**Master project:** “Rainbow Bionic Hand”, MERIIT (Medical Robotics and Interactive Intelligent Technologies, NYU) Laboratory guided by the team leader Prof. S. Farokh Atashzar

**Master’s degree in “Mechanical Engineering” with major in “Mechatronics and Robotics”**

At Polytechnic University of Bari

Graduated: 16/10/2020

Final Grade 110/110 cum laude

I am currently attending the **Industry 4.0 Ph.D. Program**, advised by Prof. Ing, Mariagrazia Dotoli, at D&C Lab in the Electrical and Information Engineering Department, Polytechnic University of Bari.

## PERSONAL SKILLS

Mother tongue Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B2
Spanish	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

**Communication skills** English improved during an internship at “Ovingdean Hall International College” in Brighton, England (certification acquired First) and at “Basil Paterson” in Edinburgh, Scotland.

**Knowledge and skills** Windows Office and Project  
 SolidWorks  
 Autodesk Inventor  
 Wolfram Mathematica  
 Fluid dynamics computational software “ANSYS fluent”  
 Paint software  
 Mathworks softwares (Matlab and Simulink)  
 Logistic  
 Marketing  
 Project management  
 Leadership and strong interpersonal skills  
 Evaluation of risks  
 Problem solving  
 Team work  
 Projects with Arduino  
 Python  
 C

**Other skills** Passion for sports and arts.  
 Horse riding done at professional level, participation in National Championships and International competitions.  
 Swimming and skiing practiced at National level.  
 Interest for painting, art and architecture, supported by the experience of being a tour guide in artistic sites.

Driving licences A and B

## PROJECTS

Trajectory control of a planar quadrotor

The quadrotor is a great platform for control systems research as its non-linear nature and under-actuated configuration make it ideal to synthesize and analyze control algorithms. The LQR algorithm is used to solve a go to goal task. Then, the iterative optimal control algorithm (iLQR) is applied to allow the planar quadrotor to follow a linear trajectory, a circular trajectory and an infinity shape trajectory.

Class: Optimal and learning control for robotics NYU

- Ride the future** Smart helmet with directional and braking indicators, back side monitoring system and fall emergency system attached to the bicycle.  
Class: Mechatronics NYU
- Prosthetic thumb** Position, kinematics and dynamics analysis of the thumb with Matlab; 3D model with Solidworks and prototype with the 3D printing  
Class: Robotics Polytechnic University of Bari

## ADDITIONAL INFORMATION

- Prizes** Candidate for the Prize “Alfieri del lavoro”
- Certifications** Form A and C RSPP (Health & Safety Manager)  
IELTS C1 (7.5L-7R-6.5W-7S)  
GRE

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Bari, 20/10/2020

Signature

