Luca MARCHIONNA

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EDUCATION

2019 -2021	**Politecnico di Torino** MSc, Mechatronic Engineering, Highest Honors with GPA: 3.93/4.00 Thesis: *Performance evaluation of operational space control and visual servoing for complex 3D arm applications*	Turin, Italy
2016-2019	**Politecnico di Torino** BSc, Mechanical Engineering Thesis: *Kinetic energy recovery systems*	Turin, Italy

TEAMWORK EXPERIENCE

02/2021 - present	**Research Fellow** | PIC4SeR – Interdepartmental centre for Service Robotics • Implementation of visual-based control techniques for a robotic arm. • *Developed visual-based control techniques for motion planning.* • *Reshaped the manipulator's end-effector.*	Turin, Italy
09/2020 - 01/2021	**Apprenticeship** | PoliTO in collaboration with Evo Pricing • App development for forecasting fashion trends. • *Led the data team for recognizing clothes on social media with an accuracy up to 98%.*	Turin, Italy
04/2020 - 07/2020	**Traineeship** • Realization of 3D printed robotic arm with artificial intelligence. • *Designed the mechanical structure through Solidworks and constructed assembly.*	Turin, Italy
05/2019 - 09/2019	**Undergraduate Thesis** | Department of Mechanical and Aerospace Engineering, PoliTO • Kinetic energy recovery systems • *Provided State of the Art about KERS in terms of power (60 kW) and dimensions for automotive sector.*	Turin, Italy

EXTRA CURRICULAR ACTIVITIES

2022 (expected)	**Publication** L. Marchionna, G. Pugliese (2022). "Visual servoing for complex 3D arm application". Manuscript in preparation	
11/2020	**Conference** Presenter "Algorithm structure for forecasting fashion trends" Explained teamwork for collaboration with EVO to an audience of managers and professors.	Turin, Italy
2017	**La Candarella – Wine consultant** Encouraged the customer in choosing the best wines, according to their taste.	Pescocostanzo, Italy
2014	**University college of Dublin** Explored life college and improved English skills.	Dublin, Ireland
2012	**Reaseheath College** Gained personal growth and English proficiency.	Nantwich

SKILLS & INTERESTS

Italian: Mother tongue	**Spanish:** Basic
English: Fluent	**French:** Basic

CAD: SolidWorks, Fusion360, AutoCAD, Gazebo	**Software:** MATLAB, ROS, LTspice
Programming Language: C, C++, Python, HTML	**Interests:** Electro-mechanical systems, Control systems Design, Data validation