



Roberto Fausti

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EDUCATION AND TRAINING

01/11/2022 – CURRENT Italy

PH.D. ROBOTICS AND INTELLIGENT MACHINES, CURRICULUM INDUSTRY 4.0 DRIM - STIIMA-CNR - Università degli Studi di Genova

Research Topic: Planning and control of multiple mobile manipulators for cooperative transport of rigid objects in industrial environment.

Tutor: Dott. Nicola Pedrocchi

Website <https://drim.i-rim.it/>

02/2022 – 08/2022 Brescia, Italy

RESEARCH SCHOLARSHIP Università degli Studi di Brescia

European Project IMOCO4.e

Topics:

- Identification techniques for mechatronic systems with implementations on industrial hardware.
- Disturbance compensation through gaussian process-based control techniques.

2019 – 2021

MASTER DEGREE IN AUTOMATION ENGINEERING Università degli Studi di Brescia

Thesis Topic: Implementation of admittance control for human-robot interaction, based on friction models. The controller has been implemented using ROS and tested on a UR10 collaborative robot.

Website <https://www.unibs.it/it> | **Field of study** Electronics and automation | **Final grade** 110/110 cum Laude |

Thesis Elasto-plastic control for physical human-robot interaction. Supervisor: Prof. Manuel Beschi

2016 – 2019

BACHELOR DEGREE IN AUTOMATION ENGINEERING Università degli Studi di Brescia

Thesis Topic: Implementation and comparison of identification techniques for mechatronic systems

Website <https://www.unibs.it/en> | **Final grade** 109/110 |

Thesis Analysis of Identification Methods for Mechatronic Systems. Supervisor: Prof. Antonio Visioli

2011 – 2016 Gardone Val Trompia (BS), Italy

HIGH SCHOOL DIPLOMA AT TECHNICAL INSTITUTE, CURRICULUM ELECTRONIC I.I.S. Carlo Beretta

Final grade 99/100

WORK EXPERIENCE

03/2024 – CURRENT Brescia, Italy

TEACHING ASSISTANT UNIVERSITÀ DEGLI STUDI DI BRESCIA

Assistant for the **Laboratory of Automatic Control** course of Automation Engineering Master Degree, held by Prof. Manuel Beschi.

03/2023 – 09/2023 Brescia, Italy

TEACHING ASSISTANT UNIVERSITÀ DEGLI STUDI DI BRESCIA

Assistant for the **Digital Control** course of Automation Engineering Bachelor Degree, held by Prof. Claudio Carnevale.

03/2022 – 09/2022 Brescia, Italy
TEACHING ASSISTANT UNIVERSITÀ DEGLI STUDI DI BRESCIA

Assistant for the **Digital Control** course of Automation Engineering Bachelor Degree, held by Prof. Claudio Carnevale.

07/2021 – 09/2021 Carpeneda di Vobarno, Italy
INTERNSHIP IN GENERAL MAINTENANCE FONDITAL S.P.A.

● **PROJECTS**

02/2022 – 08/2022
Intelligent Motion Control under Industry4.E (IMOCO4.e)

European Project, <https://www.imoco4e.eu/>

● **PUBLICATIONS**

2024
Elasto-plastic Control for Physical Human-Robot Interaction

Submitted to *IEEE 29th International Conference on Emerging Technologies and Factory Automation (ETFA)*

R. Fausti, S. Ghidini, M. Beschi, N. Pedrocchi.

2022
Comparing repetitive control strategies in lift applications

2022 IEEE 27th International Conference on Emerging Technologies and Factory Automation (ETFA)

R. Fausti, M. Beschi, D. Colombo, A. Visioli

● **DIGITAL SKILLS**

Programming Languages and Frameworks

C++11 | Python | Matlab | Simulink | IEC 61131-3 | Robot Operating System (ROS)