



PERSONAL INFORMATION



Gianluca Lentini

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Sex Male | Date of birth 22/12/1988 | Nationality Italian

EDUCATION AND TRAINING

01/11/2019–Present

Phd in Robotics Engineering - Internship

ABB Corporate Research Center, Västerås (Sweden)

- Advisor: Pietro Falco, Liwei Qi, Jonas Larsson, Xiaolong Feng
- Research line:
 - Dual Arms Mobile Manipulation
 - Markerless Learning from Demonstration
 - Intuitive programming

01/11/2017–Present

PhD in Robotics and Automation Engineering

IIT- Italian Institute of Technology, Genoa (Italy)

- Advisor: Prof. Antonio Bicchi, Dott. Ing. Manuel G. Catalano
- Research line:
 - Learning from Demonstration for fast and intuitive robot programming.
 - Human-Robot collaboration
 - Analysis, design and implementation of bimanual teleoperation systems for humanoid robots

01/10/2013–24/11/2016

MSc in Robotics and Automation Engineering

University of Pisa, Faculty of Engineering, Pisa (Italy)

- Thesis Title: "*Development of a Bimanual Teleoperation Framework and Implementation on a Dual-Arm Torso Composed of KUKA Lightweight Arms and SoftHands*"
- Advisor: Prof. Antonio Bicchi, Dott. Ing. Manolo Garabini, Dott. Ing. Manuel G. Catalano, Dott. Ing. Giorgio Grioli
- Grade: 110/110 cum laude

01/08/2007–01/04/2013

BSc in Electronic Engineering

Polytechnic University of Bari, Bari (Italy)

- Thesis Title: "*Development of wireless node for OBD to interface with a smartphone android*"
- Advisor: Prof. Francesco Corsi

01/09/2002–01/07/2007

High School

Liceo Scientifico M. Curie, Monopoli (Italy)

WORK EXPERIENCE

01/01/2017–01/11/2017 **Fellowship**
 Research Center E. Piaggio, Pisa (Italy)

- Bimanual teleoperation
- Bimanual manipulation
- Human grasp

01/11/2012–01/04/2013 **Internship**
 Microlaben S.R.L, Bari (Italy)

- Microcontroller programming

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages - Self-assessment grid

Communication skills Collaborated with other scientists, outlining objectives, methodology and conclusions, actively listening to people and stimulating interest and discussion. Easily to integrate and adapt to new environments and different life-style.
 Ability to work both independently and in team settings. Eager to create and maintain relations with foreign people, promoting enriching cultural exchanges.

Organisational / managerial skills Managed several projects and collaboration in parallel, planned work to achieve goal and targets on time, set realistic objectives, developed creative solutions to problems.
 Flexibility, ability to adapt and to learn new technologies and approaches in a short time.

- Job-related skills**
- Main Skills
 - Kinematic and Dynamic control of manipulators
 - Inertial sensors
 - Motion tracking
 - Trajectory planning and Trajectory generalization
 - Point Cloud Processing & Manipulation
 - Vision for robotics applications
 - Variable stiffness actuators control
 - Localization & Navigation
 - Particle filter, Kalman filter
 - Operating Systems
 - Windows
 - Linux
 - Programming languages
 - Advanced: ROS, C, C++, Matlab, Simulink
 - Good: Java, Android, Python, HTML
 - Robots
 - YuMi Robot

- kuka LWR
- Panda Franka Emika
- Ridgeback Robot
- Walkman
- EGO

ADDITIONAL INFORMATION

Main mechanical and robotics systems developed

- AlterEgo Robot: open-source mobile soft manipulation platform with two arms, developed to operate in different environments and equipped with soft robotic technologies.
- Website: <https://www.naturalmachinemotioninitiative.com/ego>

Publications

- Conferences and Journals
 - G. Lentini, A. Settini, D. Caporale, M. Garabini, G. Grioli, M. G. Catalano, L. Pallottino, A. Bicchi: "EGO: a soft dual-arm mobile platform to enable physical interaction", IEEE Robotics & Automation Magazine, 2019 (Accepted)
 - G. Zambella, G. Lentini, M. Garabini, G. Grioli, M. G. Catalano, A. Palleschi, L. Pallottino, A. Bicchi, A. Settini, D. Caporale: "Dynamic Whole-Body Control of Unstable Wheeled Humanoid Robots", IEEE Robotics and Automation Letters, 2019 (Accepted)
 - J. P. Clark, G. Lentini, F. Barontini, M. G. Catalano, M. Bianchi, M. K. O'Malley: "On the role of wearable haptics for force feedback in tele-impedance control for dual-arm robotic teleoperation", IEEE International Conference on Robotics and Automation, September 2018.
 - F. Negrello, A. Settini, D. Caporale, G. Lentini, M. Poggiani, D. Kanoulas, L. Muratore, E. Luberto, G. Santaera, L. Ciarleglio, L. Ermini, L. Pallottino, D. G. Caldwell, N. Tsagarakis, A. Bicchi, M. Garabini, M. G. Catalano: "Humanoids at Work: The WALK-MAN Robot in a Postearthquake Scenario", IEEE Robotics & Automation Magazine, May 2018.