

PERSONAL INFORMATION

Alessio Levratti

 (it) (+39) 0522 523529 alessio.levratti@unimore.it

Sex Male | Date of birth 16/08/1984 | Nationality Italian

WORK EXPERIENCE

03/04/2017–Present

Robots and Autonomous Machines control software developer

Industria Tecnologica Italiana I-TI, Reggio Emilia (Italy)

01/01/2014–31/03/2017

Research Fellow

University of Modena and Reggio Emilia, Reggio Emilia (Italy)

- Design of robots
- Robots programming

EDUCATION AND TRAINING

01/09/2003–12/02/2008

Bachelor Degree in Mechatronics Engineering

University of Modena and Reggio Emilia, Reggio Emilia (Italy)

- Mathematics
- Physics
- Mechanics
- Electronics
- Computer Science
- Robotics
- Automation

13/02/2008–12/10/2010

Master Degree in Mechatronics Engineering

University of Modena and Reggio Emilia, Reggio Emilia (Italy)

- Mathematics
- Physics
- Mechanics
- Electronics
- Computer Science
- Automation
- Robotics

01/01/2011–31/12/2013

PhD in Industrial Innovation Engineering

University of Modena and Reggio Emilia, Reggio Emilia (Italy)

- Robotics
- Mobile Robotics
- Sensor Fusion
- Automation

01/09/1998–07/07/2003

High School Degree

Liceo Scientifico Statale Manfredo Fanti, Carpi (Italy)

- Mathematics
- Physics
- Chemistry
- Italian Literature
- English Literature
- History
- Philosophy
- Computer Science

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

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

Communication skills Good communication skills acquired during the PhD.

Organisational / managerial skills

Very good management skills acquired during the PhD and the reserch activities. I partecipated in the regional project DiRò (Distretto della Robotica Mobile), project REMOCAL (in collaboration with CORGHI S.p.A.) and the European Project TIREBOT (in the framework of ECHORD++ European project).

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

- Skilled in Office Suite's applications.
- Very good skills in MATLAB/Simulink programming.
- Very good skills in C/C++ programming.
- Very good skills in ROS (Robot Operating System).
- Skilled in Labview
- Basic skills in OpenCV programming
- Very skilled in MS Operating Systems (Windows XP, Windows 7, Windows 8, Windows 10) and Ubuntu Operating Systems (10.04, 12.04, 14.04).
- Basic Skills in C# programming
- Good skills in Solidworks.
- Very skilled in LaTeX
- ECDL (European Computer Driving Licence) in 2003

Driving licence B

ADDITIONAL INFORMATION

Publications

"An inertial/RFID based localization method for autonomous lawnmowers" - Alessio Levratti, Matteo Bonaiuti, Cristian Secchi, Cesare Fantuzzi - Proceedings of the 10th IFAC Symposium on Robot Control, IFAC SYROCO

"Experimental comparison of 3d vision sensors for mobile robot localization for industrial application: Stereo-camera and rgb-d sensor" - Lorenzo Sabattini, Alessio Levratti, Francesco Venturi, Enrica Amlo, Cesare Fantuzzi, Cristian Secchi - 12th International Conference on Control Automation Robotics & Vision (ICARCV), 2012

"A Low Cost Localization Algorithm for an Autonomous Lawnmower" - Alessio Levratti, Cristian Secchi, Cesare Fantuzzi - 9th International Workshop on Robot Motion and Control, ROMOCO13

"Implementation of Coordinated Complex Dynamic Behaviors in Multi-Robot Systems" - Lorenzo Sabattini, Cristian Secchi, Matteo Cocetti, Alessio Levratti, Cesare Fantuzzi - IEEE Transactions on Robotics (T-RO)

"Decentralized Control of Cooperative Robotic Systems for Arbitrary Setpoint Tracking while Avoiding Collisions" - Lorenzo Sabattini, Cristian Secchi, Alessio Levratti, Cesare Fantuzzi - Proceedings of the IFAC Symposium on Robot Control (SYROCO)

"TIREBOT: A Novel Tire Workshop Assistant Robot" - Alessio Levratti, Antonio De Vuono, Cesare Fantuzzi, Cristian Secchi - 2016 IEEE International Conference on Advanced Intelligent Mechatronics (AIM)

"Safe Navigation and Experimental Evaluation of a Novel Tire Workshop Assistant Robot" - Alessio Levratti, Giuseppe Riggio, Antonio De Vuono, Cesare Fantuzzi, Cristian Secchi - Accepted for publication as regular paper in proceedings of the 2017 IEEE International Conference on Robotics and Automation (ICRA)

"Nuove Tecniche di Stima e Controllo per Robot Mobili nel Mondo Reale" - Autore: Alessio Levratti, Tutor: Cristian Secchi- Tesi di Dottorato di Ricerca in Ingegneria dell'Innovazione

"Progettazione e sviluppo di algoritmi di localizzazione basati su filtri di Kalman su sistema operativo ROS per un robot mobile Differential Drive" - Autore: Alessio Levratti, Relatore: Cristian Secchi, Correlatore: Roberto Olmi, Contro-relatore: Cesare Fantuzzi - Tesi di Laurea Specialistica

"Progetto di una macchina di prova per la caratterizzazione rapida a fatica di fili a memoria di forma in condizioni di ipotermia" - Autore: Alessio Levratti, Relatore: Eugenio Dragoni, Correlatori: Igor Spinella, Giovanni Scirè Mammano