

Curriculum Vitae

Roberto Francesco Pitzalis PERSONAL INFORMATION

PREFERRED JOB POSITION

Mechanical Engineer (Automation and Mechatronics area)

WORK EXPERIENCE

September 2021 to date



August 2020 to September 2021

Mechanical engineer, PhD student
ADVR-Advanced Robotic Research Line, Istituto Italiano di Tecnologia
Via San Quirico, 19D, 16163, Genova, Italy
Advanced Robotics Home (iit.it)
Development of novel wearable robotic components and technologies. Mainly focused on
exoskeletons for human augmentation and rehabilitation.
Robotics and human interaction
Mechanical engineer
IGM Srl, Electromechanical & Electronics Systems

& ELECTRONIC SYSTEM

lljM

ELECTROMECHANICAL https://www.igm-online.it/

Via Trieste, 22, 19020 Follo (SP)

Research and development of new electromechanical solutions for railway applications, in particular brake and traction master controller. Drawn up technical specifications, operative procedures, bills of materials.

Railway, space and defence

Research Internship

October 2019 to March 2020



May 2017 to July 2017 mectron ---medical technology



EPFL-LMTS, Soft Transducers Laboratory, Ecole Polytechnique Fédérale de Lausanne Rue de la Maladière 71b, CP 526, CH-2002 Neuchâtel, Switzerland https://www.epfl.ch/labs/lmts/ ElectroHydroDynamics pumps design optimization to increase performance in terms of hydraulic power density, pressure and flow rate.

Advanced Manufacturing Systems and Mechatronics

Mechanical Engineer Internship

Mectron S.p.A,

Rue Loreto 15A, 16042 Carasco (GE), Italy.

https://mectron.it/

Optimization tests of pre-stress for piezoelectric transducers used in the medical field. Medical and dental surgical field.

EDUCATION AND TRAINING November 2021 to date



UNIVERSITÀ DEGLI STUDI DI GENOVA September 2017 to March 2020



Ph.D student in Mechanical Engineering

Research, design and development of new solutions for human assistance. In particular exoskeletons for occupational and industrial purposes. Under the project INAIL-Esoscheletro Collaborativo, I have been designing a novel exoskeleton for human wrist assistance.

Master of science degree in Mechanical Engineering-Design and Production Mechatronics-LM33; 110/110 cum laude

University of Genoa, Polytechnic School Via all'Opera Pia, 15, 16145, Genova (GE), Italy

www.meccanica.unige.it

Bachelor of science degree in Mechanical Engineering-Automation and Mechatronics-CL9; 110/110 cum laude



Curriculum Vitae



University of Genoa, Polytechnic School Via all'Opera Pia, 15, 16145, Genova (GE), Italy www.meccanica.unige.it Scientific-Technological High School Diploma. Final grade obtained: 100/100 I.I.S "G. Capellini-Sauro " Rue Giacomo Doria 2 (La Spezia) www.capellinisauro.gov.it

Mother tongue(s)	Italian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2-Upper Intermediate	B2-Upper Intermediate	B2-Upper Intermediate	B2-Upper Intermediate	B2-Upper Intermediate
French	A2-Basic user	A2-Basic user	A2-Basic user	A2-Basic user	A2-Basic user
	Levels: A1/2: Basic user - E Common European Framev				
Communication skills	 Good communicatio Capability to listen at Open minded, embra 	nd interact on group ac		ent and worker;	
rganisational / managerial skills	 Autonomy and problem solving gained through work and research experiences; Leadership gained in leading small project at University; Excellent schedule skills, well organized and keen on details; 				
Computer skills	 3D CAD software (PTC-Creo, Catia V5, AutoCAD 2019); MATLAB/Simulink/Simscape; C, C++ programming skills; LabVIEW; Graphics (basis): Photoshop, Illustrator, InDesign, Inkscape Good command of Microsoft Office[™] tools; 				
Other skills	 MEMS fabrication in Clean Room environment; Rapid prototyping using 3D printer, laser cutting and engraving; Scanner 3D <i>Sense</i>; Laboratory instrumentation: tin soldering iron, voltmeter, impedance meter, oscilloscope, HV-power supplies fume-hood, optical microscopes. 				
Driving licence	• A1, B				
DDITIONAL INFORMATION Projects Honours and awards	• 2015-2016, Underwa	ater wire-guided R.O.V	, iit research initiative fo V - Project SeaPerch. ts for Industry 4.0" pror	•	a Spezia host
Honours and awards			students, Mechanical E	•	*
Memberships	 Italian register of engineers. 				
References	• iit, Researcher Jesús Ortiz, jesus.ortiz@iit.it				
	 Unige, Prof. Giovanni Berselli, <u>giovanni.berselli@unige.it</u> EPFL, Prof. Herbert Shea, herbert.shea@epfl.ch 				



Curriculum Vitae

I authorize the use of my personal data pursuant to Legislative Decree of 30th June 2003, n. 196 "Code concerning the protection of personal data" and the GDPR (EU Regulation 2016/679).

- Copies of degrees qualifications;
- Certificate of RAMS analysis course (26h)
- Certificate of attendance at English Course level C1 (50h) at iH Newcastle-Upon-Tyne (UK);
- Certificate of attendance at the course Business English;

Signature