PREFERRED JOB POSITION

WORK EXPERIENCE
September 2021 to date


IStituto italiano DI TECNOLOGIA advanced robotics

## Mechanical engineer, $\mathbf{P h D}$ 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
August 2020 to September 2021


ELECTROMECHANIC \&ELECTRONIC SYSTEMS

IGM Srl, Electromechanical \& Electronics Systems
Via Trieste, 22, 19020 Follo (SP)
https://www.igm-online.it/

## Mechanical Engineer (Automation and Mechatronics area)

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
October 2019 to March 2020

## EPFL

## May 2017 to July 2017 <br> mectron <br> medical technology

## Research Internship

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

 di genova September 2017 to March 2020

September 2014 to July 2017

## 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 MechatronicsLM33; 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 MechatronicsCL9; 110/110 cum laude

September 2009 to July 2014
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

PERSONAL SKILLS
Mother tongue(s)
Other language(s)

English
French

Organisational / managerial skills

Italian

| UNDERSTANDING |  | SPEAKING |  | WRITING |
| :---: | :---: | :---: | :---: | :---: |
| Listening | Reading | Spoken interaction | Spoken production |  |
| B2-Upper | B2-Upper | B2-Upper | B2-Upper | B2-Upper |
| Intermediate | Intermediate | Intermediate | Intermediate | Intermediate |
| A2-Basic user | A2-Basic user | A2-Basic user | A2-Basic user | A2-Basic user |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

- Good communication skills gained through my experience as student and worker;
- Capability to listen and interact on group activities;
- Open minded, embracing challenges and innovation;
- 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;

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 ${ }^{\mathrm{TM}}$ tools;

Other skills

- MEMS fabrication in Clean Room environment;
- Rapid prototyping using 3D printer, laser cutting and engraving;
- Scanner 3D Sense;
- Laboratory instrumentation: tin soldering iron, voltmeter, impedance meter, oscilloscope, HV-power supplies, fume-hood, optical microscopes.

A1, B

- 2021 to date, Esoscheletro Collaborativo 2, iit research initiative funded by INAIL;
- 2015-2016, Underwater wire-guided R.O.V - Project SeaPerch.

Honours and awards

Memberships
References

- 2020, Master thesis award in "Mechatronics for Industry 4.0" promoted by Lions Club La Spezia host.
- 2016-2018, Scholarship - Top 8 University students, Mechanical Engineering Department (DIME).
- Italian register of engineers.
- iit, Researcher Jesús Ortiz, jesus.ortiz@iit.it
- Unige, Prof. Giovanni Berselli, giovanni.berselli@unige.it
- EPFL, Prof. Herbert Shea, herbert.shea@epfl.ch

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;

