

# Francesco Pezzuoli

## QUALIFICATIONS

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### *PhD Student*

Student, PhD in Mathematics and Applications (School of Science and Technology).  
University of Camerino, Camerino (Italy).  
Topic: Development of Gesture Recognition Algorithms Using Inertial Measurement Units (IMUs),  
Supervisor: Prof. Eng. Maria Letizia Corradini

### *Master Degree*

Master Degree in Software and Systems for Industries 110/110 cum laude, University of Camerino, Camerino (Italy).  
Started: October 2015.  
Date of degree: May 2017.

### *Bachelor Degree*

Bachelor Degree in Industrial Computing 110/110 cum laude University of Camerino, Ascoli Piceno (Italy).  
Thesis in: "Analysis, Study and Modeling a New Generation Exoskeleton for Support Using New Project's Technologies".  
Started: October 2011.  
Date of degree: July 2014.

### *Degree*

Expert chief technician in electronics and telecommunications *I.T.I. Enrico Fermi*, Ascoli Piceno (Italy). 91/100.

### *Teaching Qualifications*

Aquired 24 credits (PF24) needed as requirements to be a professor in Italy, divided in:  
-Cognitive Processes, learning and development processes i learning [FIT002] (6CFU)  
-Anthropology [FIT003] (6CFU)  
-Design, evaluation and educational research [FIT001] (6CFU)  
-Teaching methods and technologies [FIT004] (6CFU)  
*University of Camerino*, Camerino (Italy).

## ACTUAL WORK EXPERIENCES

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### *[March 2015/ Present]*

CEO and Founding Partner of *LiMiX*, Innovitave Start-up and Spin-off of the University of Camerino (Italy).

### *[A.Y 2019/2020]*

Professor Adjunct in ESA (Embedded Systems Architecture) - Master Degree in Computer Science, University of Camerino (Italy), 9 CFU

### *[A.Y 2019/2020]*

Professor Adjunct in Laboratory of Human Machine Interaction - Master Degree in Computational Design, University of Camerino (Italy), 7 CFU

## ENDED WORK EXPERIENCES

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[March2019/June2019]

Visiting Researcher - MDH University, Västerås (Sweden).

[2018/2019]

Improvements for a Battery Swap System (ROTOLion), Picchio Spa, Ancarano (TE), Italy.

[A.Y2018/2019]

Professor Adjunct in ESA (Embedded Systems Architecture) - Master Degree in Computer Science, University of Camerino (Italy), 6 CFU

[A.Y2017/2018]

Professor Adjunct in ESA (Embedded Systems Architecture) - Master Degree in Computer Science, University of Camerino (Italy), 6 CFU

[A.Y2018/2019]

Professor Adjunct in Laboratory of Human Machine Interaction - Master Degree in Computational Design, University of Camerino (Italy), 7 CFU

[A.Y2017/2018]

Professor Adjunct in Laboratory of Human Machine Interaction - Master Degree in Computational Design, University of Camerino (Italy), 7 CFU

[A.Y2017/2018]

Tutor in Computer Architecture *University of Camerino*

[A.Y2016/2017]

Tutor in Computer Architecture *University of Camerino*

[January2015/May2015]

Project Leader for *University of Camerino and Belumbury spa, Ascoli Piceno (Italy)*.  
Creation and implementation of a 3D mounting and maintenance manual for electric cars (on-line).

[March2014/March2016]

Researcher for *University of Camerino and MES spa, Ascoli Piceno (Italy)*.  
*Design of a new concept of exoskeleton for the disabled support.*

[August2014/September2014]

Project Leader and Developer for *University of Camerino and University of Berkeley, California, Ascoli Piceno (Italy)*.  
Implementation of an Android application used to change parameters of an Exoskeleton System via Bluetooth.

[November2013/January2014]

Developer for *MDH University and Västerås tidtagning, Västerås (Sweden)* Västerås Tidtagning provides timing equipment for swimming competition.

[November2010/June2011]

Computer Technician for *ADP Computer Store, L'Aquila (Italy)*.  
Hw/Sw assistance, Data Recovery, Public Relations.

[March2009/May2009]

Stage for placement in "*G.E.M Elettronica*", San Benedetto Del Tronto Ascoli Piceno (Italy).  
Wiring, Pre Testing, Testing, Welding.

## EDUCATION AND RESEARCH

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- [2018] Pezzuoli F., Corona D., Corradini M.L., Cristofaro A.  
Development of a Wearable Device for Sign Language Translation.  
Published In: Ficuciello F., Ruggiero F., Finzi A. (eds) Human Friendly Robotics. Springer Proceedings in Advanced Robotics, vol 7. Springer, Cham (2018).
- [2018] Paciotti D, Pezzuoli F., Cotechini F. Upper limbs orthosis for disability support: the areas of project development between technology and design.  
Foritall, Ambient Assisted Living, Italian Forum, Lecce, July 2018.  
Published in: Lecture Notes In Electrical Engineering, Springer.
- [2019] 10th International Conference on Applied Human Factors and Ergonomics, Additive Manufacturing, Modeling Systems and 3D Prototyping, Washington D.C. USA, July 2019.  
"Improvements in a Wearable Device for Sign Language Translation"  
Published in: The book Advances in Human Factors in Wearable Technologies and Game Design (2019)
- [2017] 10th International Workshop on Human-Friendly Robotics (HFR 2017)  
Paper: "Development of a Wearable Device for Sign Language Translation".
- [2019] Pezzuoli F., Corona D., Corradini M.L., Capriotti A.  
Talking Hands: a data-glove that helps non-verbal forms of communication.  
Article has been accepted in ATAD 2019 Conference
- [A.Y.2017/2018] Supervisor. Master Thesis in Computer Science (LM-18) Unicam  
"Wireless Sensor Networks for Rigid Multi-Link Structures".  
Student: Juzef Bici
- [A.Y.2017/2018] Supervisor. Master Thesis in Computational Design (LM-12) Unicam  
"Xela: VR, Serious Game e Tracker for hand rehabilitation".  
Student: Virginia D'Augusta
- [A.Y.2016/2017] Supervisor. Bachelor Degree Thesis in Computer Science (LM-31) Unicam  
"Implementation of an input device for person with motor disease".  
Student: Davide Sestili
- [A.Y.2014/2015] Research Scholarship  
"Contactless Connections and in continuity integrable with the release/coupling system for advanced bike sharing systems". Funded by *Picchio S.p.a. and University of Camerino*.
- [A.Y.2012/2013] Erasmus Student MDH University, Västerås (Sweden), 6 Months.
- [A.Y.2012/2013] Excellence Scholarship by University of Camerino.  
Scholarship for Merit: Working 150h in the University, Support for the Secretary Office.  
Support to teachers, students, secretary, information system.

## LANGUAGES

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**English** Optimal Knowledge of the Language. Level B2 (certified by University of Camerino)  
**Italian** Native Language.

## COMPUTER SKILLS

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Great attitude to work with all kind of technologies.

### Operative Systems

Optimal Knowledge of Microsoft Windows.  
Experience in assistance for all kind of PCs, Notebooks, Net books, Smart phones, Tablets ecc. (Software and Hardware).

### Microsoft Office

Optimal Knowledge of Microsoft Office Package.

### Programming, Modeling and other Computer Skills

*Assembler (MicroChip 16Fxx/18Fxx), Arduino and fast prototyping, C, C++, Csharp, Database, MySQL, SQL, SQL Server, Visual Studio, Java, ADT, Matlab, Simulink, Prolog, Software Engineering, UML, Enterprise Architect, Microsoft Project, Astah Professional, HyperWorks Packages, Creo 2.0 Packages, SolidWorks Packages, 3D VIA Composer, LaTeX, IMU (Inertial Measurement Unit) and Orientation Sensors, Quaternions.*

## PROFESSIONAL SKILLS

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Great Attitude to Problem Solving	Hungry of Knowledge
Flexybile and adaptive	Diligent and Responsible
Optimal Ability of Analysis	Optimal Ability to Relate and Talk

## PRIZES/OTHER ACTIVITIES

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With the project Talking Hands (**LiMiX Srl**):

- 2019 TEDX Speaker-TEDx AUBG: Why I Use Technology to Help Others
- 2018 The Chivas Venture Global Finalist
- 2017 Winner The Chivas Venture Italy
- 2017 Speech during "The Makers Week 2017" in Bruxelles EU Parliament.
- 2017 Winner of SME Instrument Fase I with LiMiX, progetto Talking Hands.
- 2017 Winner of a POR - FESR 2014 -2020 " Support for the development and consolidation of high-intensity start-ups and application of knowledge" with LiMiX Srl
- 2017 TEDX Speaker-TEDx Brescia: Breaking Barriers Using Technology
- 2015 Winner of Start Cup Marche
- 2016 Winner of e-Capital
- 2016 Winner of Maker Faire Rome: R.O.M.E Prize
- Public Engagement with Science and Technology, Performing Science communication in the mass media, Internet, radio and television programmes about my research
- Public Engagement with Entrepreneurship

## PERSONAL INTERESTS

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Travelling, Music and Movies, Motorcycle Enthusiast, Running, Swimming, Climbing, Karate (Teached to Children and Teenagers), Lecture, Help People - Blood Donor (Member of AVIS, Associazione Volontari Italiani donatori di Sangue, Italy).