Francesco Pezzuoli

1 Personal Data

2 Qualifications

PhD

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
Started: November 2017.
Date of degree: 29 march 2021.

MasterDegree

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
Total: 18 months

BachelorDegree

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
Total: 32 months

Degree

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

TeachingQualifications

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).

Certificate

Get Ready for Japan course
EU-Japan Centre for Industrial Cooperation: "https://www.eu-japan.eu", Japan

Certificate

Safety courses For Fire Fighting (medium risk) and First-Aid to People.
Alpha Consulting, Italy

3 Current Work Experiences

[*February* 2020/*Actual*]

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

[*A.Y* 2019/2020]

Professor Adjunct in IOT and Principles of Physical Computing - Master Degree in Design for Digital Innovation, University of Camerino (Italy), 5 CFU

4 Ended Work Experiences

[*March*2015/*February*2020]

CEO and Founding Partner of *LiMiX*, Innovitave Start-up and Spin-off of the University of Camerino (Italy). In LiMiX I carried out different hi-tech project in different sectors: logistic, agri-food, virtual reality, fitness, rehabilitation and technology in marine environment

[3*March*2022]

Lecturer during Winter School: Managment of Innovation and Common Good, Scuola di Studi Superiore Sant'Anna, Pisa, Italy

[21*September*2021]

Lecturer during Summer School: 3° European R2 S2 Robotic Rehabilitation Summer School 13-14-15/20-21-22/27 September 2021 Pediatric rehabilitation activities with the use of technologically advanced and robotic equipment, KOS HOLDING GROUP - SANTO STEFANO RIABILITAZIONE, Italy

[10*September*2021]

Lecturer during Summer School: IL BELLO DELL' INNOVAZIONE - trasferimento tecnologico, UNICAM, Camerino, Italy

[25*Septmber*2019]

Lecturer during PhD Summer School (REP-EAT): Product Prototyping and service Definition, UNITE, Teramo, Italy

[22*November*2019]

Lecturer at C-LAB UNITE: Product Prototyping and Idea Validation, UNITE, Teramo, Italy

[23*to*27*Septmber*2019]

Professor during SAAD Workshop Week, Generative Identity/Generative Graphics, UNICAM, Ascoli Piceno, Italy

[*March*2019/*June*2019]

Visiting Researcher - MDH University, Västerås (Sweden).

[2018/2019]

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

[*A.Y*2019/2020]

Professor Adjunct in Principles of IOT and Phisycal Comptuing - Master Degree in Design for Digital Innovation, University of Camerino (Italy)

[*A.Y*2018/2019]

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

[2018]

Actor, Acting as Scientist in "Mission Possible" with Bret Roberts

[*A.Y*2017/2018]

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

[*November*2013/*Jenuary*2014]

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

[*November*2010/*June*2011]

       Computer Technician for *ADP Computer Store*, L'Aquila (Italy).

       Hw/Sw assistance, Data Recovery, Public Relations.

[*March*2009/*May*2009]

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

       Wiring, Pre Testing, Testing, Welding.

5 Education and Research

[2020]

Recognition and Classification of Dynamic Hand Gestures by a Wearable Data-Glove
Spinger - SN Computer Science;
Link: https://link.springer.com/article/10.1007/s42979-020-00396-5

[2020]

Development of a New Sign Language Translation System for People with Autism Spectrum Disorder
Spinger - Advances in Neurodevelopmental Disorders;
Link: https://link.springer.com/article/10.1007/s41252-020-00175-6

[2020]

Dynamic Gestures Recognition through a Low-cost Data Glove
Francesco Pezzuoli, Dario Corona, Maria Letizia Corradini
School of Science and Technology, Mathematics Division
IEEE ICHMS 2020

[2019]

Pezzuoli F., Corona D., Corradini M.L., Capriotti A.
Talking Hands: a data-glove that helps non-verbal forms of communication
ATAD Conference 2019, Rome (Italy), https://www.atadconference2019.org

[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".

[A.Y.2021/2022]

Supervisor. Master Thesis in Innovative Digital Design(LM-12) Unicam
Student: Simone Lorenzo

[A.Y.2021/2022]

Supervisor. Master Thesis in Innovative Digital Design(LM-12) Unicam
Student: Lerry Carlini

[A.Y.2019/2020]

Supervisor. Master Thesis in Computational Design (LM-12) Unicam
"iRiseCoach" a device to help tennis players durign tennis training sessions.
Student: Marco De Luca

[A.Y.2019/2020]
      Supervisor. Master Thesis in Computational Design (LM-12) Unicam
      Student: Michele Di Carlo

[A.Y.2019/2020]
      Supervisor. Master Thesis in Computational Design (LM-12) Unicam
      Student: Lorenzo Gatti

[A.Y.2019/2020]
      Supervisor. Master Thesis in Computational Design (LM-12) Unicam
      Student: Marco Chiappini

[A.Y.2017/2018]
      Supervisor. Master Thesis in Comptuer 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 Comptuer Science (LM-31) Unicam
      "Implementation of an input device for person with motor desease".
      Student: Davide Sestili

6 Intellectual Propirerty and Scholarships

[2019]
      Inventor:
      Patent Granted N. 102016000038807: "Conversion system in voice and / or written text
      of related movements in sign languages".

[2020]
      Inventor:
      Patent Pending N. 102020000006358: "Apparato di acquisizione di immagini di docu-
      mentazione cartacea" an innovative project developed in collaboration with Tardini Srl.

[2016]
      Author:
      Copyrgiht N. 2017002185: "Real Time Checking Algorithm For Gesture Recognition".

[A.Y.2014/2015]
      Research Scholarship
      "Contactless Connections and in continuity integrable with the release/coupling sys-
      tem 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.

7   Languages

English   Optimal Knowledge of the Language, Profieciency.
Italian   Native Language.

8   Computer Skills

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 (MichroChip 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 Orentation Sensors,Quaternions, Professional 3D printing with Formlabs Fuse technology, Virtual Reality-Building Controllers and Hardware Device for Virtual/Augmented Reality

9   Professional Skills

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

10 Prizes/Grants/Other Activities

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

2022	Presenting his company inside "Italy: manufacturing beyond design" documentary during 9th Brasilian Industry Innovation Summit.
2020	Winner of a POR - FESR 2014 -2020 "Promotion of Research and Development in the sphere of smart specialization" in collaboration with LiMiX Srl, Jesi Lab and Acme Lab, project e-glove. Total funds (for all partners): 510.000€
2020	SmartEES project funded by European Union (H2020). Total funds: 120.000€
2020	ANGI Natiaonal Prize (Premio Nazionale ANGI) National Association of Young Innovators
2019	TEDX Speaker-TEDx AUBG: Why I Use Technology to Help Others
2018	The Chivas Venture Global Finalist - 6th place
2018	Startup 3-days Acceleration Programme, Saïd Business School - University of Oxford
2017	Winner The Chivas Venture Italy
2017	Speech during "The Makers Week 2017" in Bruxelles EU Parliament.
2017	Invited as best practice at Global Education & Skill Forum, Dubai from Italian Ministry of Education, University and Research (MIUR)
2017	Winner of SME Instrument Phase I with LiMiX, Project Talking Hands. Total funds: 50.000€
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. Total funds: 150.000€
2017	TEDX Speaker-TEDx Brescia: Breaking Barriers Using Technology
2015	Winner of Start Cup Marche. Total funds: 14.000€
2016	Winner of e-Capital. Total funds: 20.000€
2016	Winner of Maker Faire Rome: R.O.M.E Prize. Total funds: 100.000€
-	Public Engagement with Science and Technology, Perfoming Science communication in the mass media, Internet, radio and television programmes about my research
-	Public Engagement with Entrepreneurship

11 Personal Interests

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

12 Consent

I hereby consent to the processing of the data I provided in this CV. I declare my agreement with the data protection regulations in the data privacy statement.

To whom it may concern.

19/09/2022   PEZZUOLI FRANCESCO