Benito Lorenzo Pugliese

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Summary

Benito earned his bachelor's degree in Electronic Engineering at La Sapienza of Rome following its special "Path of Excellence". Here He learnt to analyse complex analog electronic circuits, the basics of antennas and electromagnetic and acoustic fields, the theory of signals, the electrics communication and measurements. He moved to Turin to major in digital electronics where He earned its master's degree in Electronic Engineering with Embedded Systems programme in Politecnico di Torino. He learnt to design embedded systems, the basics of operating systems and firmware developing, the digital projecting skills with VHDL language and its verification, the basics of IoT systems, electromagnetic guiding and electromagnetic compatibility. In his experience at the Harvard Medical School Motion Analysis Lab He explored various application of engineering in a healthcare setting that inspired him to pursue a doctorate to develop a Point Of Care Technology (POCT) device for stroke prevention and treatment.

Work Experience

Engineering Research Intern, Boston, MA, USA   *February 2020 - May 2021*
Motion Analysis Lab - Dept of Physical Med and Rehab -
Harvard Medical School, Spaulding Rehabilitation Hospital
Data analytics, hardware development, biomechanics and lab operations.

Education

Politecnico di Torino, Turin, IT & Harvard Medical School, Boston, MA, USA   *May 2021 - Present*
PhD in Electronic Engineering
Developing a POCT device for stroke prevention and treatment. Combining biological and physiological data for early prediction of stroke risk and patient recovery trajectory.

Politecnico di Torino, Turin, IT   *October 2017 - December 2019*
Master of Science in Electronic Engineering - Embedded System
Degree: 110/110 cum Laude
Master's Thesis: *Low Power Long Term EMG Monitoring Modular System* - PCB design and firmware of a modular devices system to monitor electromyographic signals exploiting the Average Threshold Crossing technique.

Universitá degli Studi di Roma "La Sapienza", Rome, IT   *October 2014 - October 2017*
Bachelor Degree in Electronic Engineering with "Path of Excellence"
Degree: 110/110 cum Laude
Bachelor's Thesis: *Electromagnetic and Acoustic Wave Propagation in Loss Media* - Analysis of the parallelism between electromagnetic and acoustic waves in loss media.

Skills & Technical Strengths

Hardware & Firmware Development   PCB Design   Data Analytics   Machine Learning   Biomechanics   Databases

Programming Language	C
Scripting Languages	Matlab, Python, Bash
Spoken Languages	Italian (Native), English (Business fluent)

Pubblications

C. Adans-Dester et al., "Can mHealth Technology Help Mitigate the Effects of the COVID-19 Pandemic?," IEEE Open J. Eng. Med. Biol., pp. 1–1, 2020

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