Ludovica Viola

BIOMEDICAL ENGENEERING

CONTACTS

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ABOUT ME

Highly motivated and curious biomedical engineering student with a strong passion for innovation and healthcare.

I am currently doing my Phd at the University of Genoa

LANGUAGES

Italian - Native
English -
Fluent French -
Base Spanish -
Base

COMPUTER SKILLS

Programming languages: C++, Matlab, Simulink, Python, Arduino

Software: Microsoft Office, Imagej

SOFT SKILLS

Teamwork, problema solving, leadership

EXPERIENCES

Private tutor
Private Tutor of Math, Physics, Chemistry and English Collaboration with the Norwegia Univeristy of Science and Technology

Publication
"Design of a system to detect the force applied by tourniquets in a manikin's limb" Viola, L.; Lagazzi, E.; Ballardini, G.; Drogo, A.; Bonetti, M.;Marrone, E.; Chirico, M.; Ricci, S.

PROJECTS

Analysis of Biomedical signal : use sensor information to predict what the subject is doing (standing, walking, sitting, lying down), and how this activity evolves over time.
Neurosensory Engineering: Cochlear implant Simulator and retinal prosthetics Simulators
Rehabilitation Engineering: Postural controll analysis from Hunova platform and Gait Analysis and pse estimation
Biomedical Imaging: Rigid co-registration of two MRI volumes based on fiducial points and Filtered Banck-Project Algorithm
Bioengineering of Human Movement: Motion capture using IMU senosor, Multi-channel Electromyography during functional task and Sensorimotor Adaptation
Biomedical Robotics: Forward and Inverse Kinematics in Matlab and Design of a reaching task and of a controller for a planar manipulator using different force fields with Phantom.

EDUCATION
Imperial College London

Experimental thesis
April - October 2023

University of Genoa

Master in Bioengineering - Rehabilitation Engineering and Interaction Technology
2021 - 2023

Bachelor in Biomedical Engineering
2017 - 2021