Adriana Cancrini

Biomedical Engineer

I am curious and very interested in biomechanics, robotic rehabilitationI and motion analysis; very fascinated by programming language and machine learning. I love traveling and I am fascinated by different cultures. I really want to get involved and grow professionally, I love challenges and always setting new goals.

adri.cancrini@gmail.com | +39 3881791301 | Brescia (BS), Italy | linkedin.com/in/adrianacancrini

EDUCATION

Master of Science in Biomedical Engineering
Politecnico di Milano

09/2018 - 04/2021 *Milan (MI), Italy*

Bachelor of Science in Biomedical Engineering
Politecnico di Milano

09/2015 - 09/2018 *Milan (MI), Italy*

PERSONAL PROJECTS

Study of emotions through the quantitative analysis of physiological parameters, B3Lab (02/2018 - 09/2018)

- The project dealt with the extraction of features representative of the autonomous nervous system activity from the electrocardiographic and electrodermal activity signals and with the analysis, through regressive models, of the link between such features and the emotions elicited by the presentation of a validated set of emotional stimulate.

WORK EXPERIENCE

Researcher
Fondazione Santa Lucia IRCCS

01/2022 - Present *Rome (RM), Italy*

Research project description

- SynErg. Synergies anchoring to gravity: A novel test to diagnose risk of falls in type 2 diabetes patients.
- Determine the risk of falling in diabetic patients using vestibular, visual virtual reality stimulations, haptic stimuli.
- Different types of measurement, for example vestibular, postural, mocap, emg.

Contact : m.zago@hsantalucia.it

Master's thesis project
CNR - National Research Council

11/2019 - 04/2021 *Lecco (LC), Italy*

Research project description

- Effects on motor coordination due to robotic assistance: experimental evaluation through muscle synergies on healthy subjects.
- This research line includes the use of biomedical techniques for evaluating human-robot interaction in rehabilitative and industrial fields.
- Acquire kinematic and EMG data, processing them with a pipeline for the analysis of muscle synergy.
- Experimental campaign involving 10 healthy people, data analysis and scientific writing.

Contact : alessandro.scano@stiima.cnr.it - alessandra.pedrocchi@polimi.it

IT COMPETENCE

- OS: Windows, Mac OSX
- Languages: C, Python, Java, C#
- Office: Microsoft Word, Microsoft Excel, Microsoft Power Point
- CAD: Solidworks, COMSOL
- Image elaboration: Adobe Lightroom, Adobe InDesign
- Other: R software, Matlab, LaTex, MySQL, Visual Studio

CERTIFICATES

Qualification to practise the profession of Industrial Engineer (02/2022 - Present)
Politecnico di Milano

IELTS Academic (11/2021 - 11/2023)
Overall 6.5

Programming Foundations with JavaScript, HTML and CSS (04/2021 - Present)
Duke University - ID: D5JT33ALFX4N

Python Data Structures (12/2020 - Present)
University of Michigan - ID: LB8F5HT9S3UJ

Using Python to Access Web Data (12/2020 - Present)
University of Michigan - ID: DXYYV2JA6V66

Programming for Everybody (Getting Started with Python) (11/2020 - Present)
University of Michigan - ID: 8JBPSM6UHM6X

TOEIC (08/2018 - 08/2020)
English B2 certification at EAS Milan

LANGUAGES

Italian
Native or Bilingual Proficiency

English
Professional Working Proficiency

INTERESTS

Robotic rehabilitation | Motion analysis | Programming | Muscle Synergies