Research Units of Intelligent Health Technologies for Health and Wellbeing

Designing medical devices: from general to specific considerations

Seminar

Dr. Davide Piaggio,
Assistant Professor in Biomedical Engineering
ABSPIE Lab - School of Engineering
School of Engineering, University of Warwick

Biography:

Dr Davide Piaggio was born in Imperia (Liguria, Italy), where he attended Liceo Classico E. De Amicis (2006-2011). He then received his BSc and MSc in Biomedical engineering at the University of Genova (2014) and at the Polytechnic University of Turin (2017), respectively. Davide received his PhD in Biomedical Engineering with a specific focus on medical device design and regulations and low-resource settings from the University of Warwick (2022), where he is currently Assistant Professor and co-director of the Applied Biomedical Signal Processing and Intelligent eHealth Lab since 2022. Since the start of his PhD, he has been involved in several teaching and research related jobs, including graduate teaching assistant, research assistant, teaching fellow, and research fellow. His main areas of expertise are medical device design and regulatory affairs, CAD design, 3D printing, signal processing and App design (Android). He has authored or co-authored over 30 journal/conference papers and book chapters.

Davide is collaborator of the IFMBE, specifically of the health technology assessment division, the Africa Biomedical Engineering Working Group, and the publicity committee, he is the academic co-lead for the novel Spotlight on Society and Culture, where he oversees the global health part, and he is in the executive group of the Biomedical Engineering Institute, at the University of Warwick.

Abstract:

Design has been a word as old as time. From its very first steps into this world, mankind has been contriving different solutions for specific needs, be it the hunting of a wild beast or the commemoration of a pharaoh. The world of design has been evolving into myriads of different flavours, with one bit in common: filling a gap, a need. Medical device design is part of this story and has its own challenges. This talk, starting from the very etymology of the world design, aims to give an overview of this world, linking it to relevant regulations, e.g., the European medical device regulation 2017/745. In addition, it will delve into some of the specific requirements surrounding medical device design, focusing in particular on ISO14971:2019 – Application of risk management to medical devices.

10 Maggio 2024 - ore 10:15-12.00
PRABB Aula Studio C- Microsoft Teams

Università Campus Bio-Medico di Roma
Via Álvaro del Portillo, 21
Info: Prof. Leandro Pecchia
(leandro.pecchia@unicampus.it)