

PERSONAL INFO



Giampiero Bartolomei

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Sex M | Date of birth 01/26/2001 | Nationality IT | Driving license B | Age 23

Young Biomedical Engineering graduate interested in applying, but more importantly expanding his knowledge in the field of biomedical technologies. The studies addressed allowed the development of a remarkable versatility, interdisciplinarity and ability to know how to work in a team.

WORK EXPERIENCES

07/02/2024 - ongoing

Research fellow, at CNR - Institute of Cognitive Science and Technology, "Laboratory of Embodied Natural and Artificial Intelligence."

EDUCATION

12/2021 – 02/2024

Master's degree in Biomedical engineering (LM-21, Clinical Engineering curriculum), "Campus Biomedico di Roma" University, with a grade of 110/110. Thesis Title: "*Toward measurements of vital signs and posture recognition during sleep via an FBG-based smart mattress*".

12/2018 – 12/2021

Bachelor's degree in Clinical engineering (L-9), "Università degli studi La Sapienza di Roma", with a grade of 100/110. Thesis Title: "*Una simulazione del potenziale d'azione: il modello Hodgkin-Huxley*".

2018

High school scientific diploma, "Istituto Giovanni Paolo II", Ostia (RM), with a grade of 100/100.

PERSONAL SKILLS

English Language

Good language skills, good ability to communicate effectively in everyday and professional scenarios. Cambridge certified (B1).

Professional skills

The former has completed a series of courses and examinations focused on medical devices, as well as having acquired general knowledge of current regulations. Knowledge of following programming languages used in various project and work activities: Matlab, Arduino, Python, Git. Skills in 3D printing, design of electronic circuits (Autodesk Eagle, Fritzing), Android app design (Godot). Simulative software (Comsol Multiphysics). Proven knowledge of Data Analysis, Machine Learning and AI. Excellent knowledge of Office package.

Certificates

General and Specific Training Course for Workers (12 hours): High training program in "Accident Prevention and Occupational Hygiene." *Matlab Fundamentals* (16.5 h), *Machine Learning with MATLAB* (12 h), issued by Mathworks®.

FURTHER INFORMATION

Study projects

Design and fabrication of an embedded needle injection system for drug delivery according to ISO 11608-1.

Electrical testing and functional checks on a Philips Heartstart XL defibrillator.

ML Challenge: Machine learning task for detection of grafted tumors by deepfake methods on CT images.

Manufacture of an embedded mobile platform (line tracking and teleoperation).

Publications

D'Antoni F., De Tommasi F., Bartolomei G., Lo Presti D., Vollero L., Silvestri S., Schena E., Merone M., Massaroni C., '*Sleeping Posture Classification Through a Multi-Sensing Smart Mattress Based on Fiber Bragg Grating Sensors: A Feasibility Study*', IEEE MetroInd 4.0 & lot 2024. DOI: 10.1109/MetroInd4.0IoT61288.2024.10584179