

JOÃO RIBEIRO PINTO

master in bioengineering

branch of biomedical engineering

Faculdade de Engenharia, Universidade do Porto

license degree completed in 2015

master degree expected conclusion in 2017

trainee at **CardioID** (since Sep. 2016)

master thesis internship, focused on the application of signal processing and machine learning for security biometric applications on noisy, off-the-person settings

vice-chair at **EMBS UP** (since Nov. 2015)

organization and supervision of activities, projects, and workshops related to engineering in medicine and biology, promotion of IEEE to the community

researcher at **VILab** (Sep. 2015 - Apr. 2016)

team research on machine learning and computer vision applications (mainly on biometrics)

biomedical engineering student

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main areas of interest



computer
vision



signal
processing



machine
learning



mobile apps
& GUI design



information
systems & web



sensors &
electronics

programming

C/C++

Java / C#

MATLAB

Python

PHP / SQL

HTML/CSS

Javascript

LabVIEW

remarks on projects

biometric recognition

using ECG, voice, and fingerprint with anti-spoofing liveness detection

medical image analysis

CT organ segmentation, nuclear medicine, osteoporosis detection, and pill recognition in smartphone images

web development

front-end & database development, hosting, with image analysis & decision

signal acquisition & processing/analysis

arterial pressure with PPG, pulmonary sound analysis, multi-sensor activity recognition, android apps with sensors

other skills

languages: **Portuguese** (native) & **English** (fluent)

web dev.: experience with **sass**, **react**, **angular**, **bootstrap** & **jquery**

agile development methodology (scrum), & **software testing**

expertise in **entrepreneurship**, **marketing**, and **graphic design**

soft skills: **time management**, **team leadership**, **presentation skills**

bionics, **robotics**, **control**, **actuators**, **physiology**, & others...