

# 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** (Nov. 2015 - Jun. 2017)

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...