



MARIA ANA MAGALHAES

BIOMEDICAL SOFTWARE ENGINEER
14TH JUNE 1993

ABOUT ME

I'm a Portuguese multilingual Biomedical Engineer. I am passionate about technologies, artificial intelligence and software development.

I'm recognized as very demanding, hard worker, very autonomous, creative problem solver and resilient person.

- Driver licence: Category B1
- Swimming athlete for 11 years.
- Volunteer as teacher and tutor of children with socio-economics difficulties (2015/2016)

TECHNICAL SKILLS

Python	C/C++
Java	AngularJS
Javascript	HTML/CSS
SQL	UML
Matlab	Assembly
MS Office	IBM R. DOORS
Simulink	Signal Processing
ARM-Cortex M	Git/Jira/Confluence
Communication protocols	
Real-Time systems	

LANGUAGES



Native



Advanced



Intermediate



INTERESTS



EXPERIENCE

SOFTWARE ENGINEER • AKKA TECHNOLOGIES • TOULOUSE • 05/2018 – PRESENT

- **CONTINENTAL – Diagnostic Services Security(12/2019 - Present)**
Implementation of Security Access service communication protocol. C code development compatible with Autosar architecture, unit test creation and system validation through use of CANoe simulation and testing software.

- **CONTINENTAL - Wireless Tire Pressure Monitoring System (02/2019 – 12/2019)**

Development of embedded C software in the automotive context: conception of a Bluetooth Low Energy (Bluetooth 4.2) based monitoring system for tires, using 8-bit ARM Cortex M0+ μ C Development of embedded C software dedicated for Wheel Fitted Components using Infineon ASIC SP49 (32-bit ARM Cortex M0+ μ C), for verification/testing purposes through an LF/RF interface Architecture definition, software modules and hardware integration, test modules creation, validation and system performance improvement. Agile methodologies.

- **Artificial Heart Medical Device (06/2018 – 02/2019)**

Embedded C software development for an artificial heart wearable controller. Analysis, creation and correction of high level and low-level requirements. Configuration management. CEI / IEC 62304, V model development process (waterfall).

RESEARCH SOFTWARE ENGINEER • PLUX WIRELESS BIOSIGNALS • LISBON • 09/2016 – 04/2018

Biosignals acquisition and processing, frontend and backend development, web development, RESTful programming, database programming, firmware development for ATMEL AVR 8-bit μ C. Agile methodologies.

RESEARCH AND DEVELOPMENT INTERN • FRAUNHOFER AICOS • PORTO • 02/2016 – 07/2016

Master thesis development. Implementation of a wearable system and new Android application. Implementation of research methodologies and development of functional competences. Signal Processing.



MARIAMAGALHAES1328@
GMAIL.COM



TOULOUSE
FRANCE



+351934215294



MMAGALHAES93

EDUCATION

INTEGRATED MASTER IN BIOENGINEERING • FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO • 2016

Master thesis: wearable system and application development to measure the heart rate with a smartwatch and detect physical activity through machine learning algorithms, and detection of abnormal patterns.

COMPLEMENTARY INFORMATION

COMPEMENTARY FORMATION/CERTIFICATION

1 Year International Engineering program • AKKAdemy • Geneva • 2018

HONOURS AND AWARDS

- ACTOPUX – 2nd place at AKKAdemy Innovation Project contest. Based on a mechanism that helps the conception process of user experience through machine learning techniques and web crawler tools.
- iUP25k/Model to Market –entrepreneurship contest: best 25 ideas.
- School merit table 2008 – 2011



MARIAMAGALHAES1328@
GMAIL.COM



TOULOUSE
FRANCE



+351934215294



MMAGALHAES93



**MARIAMAGALHAES1328@
GMAIL.COM**



**TOULOUSE
FRANCE**



+351934215294



MMAGALHAES93