

PERSONAL INFORMATION

Filipe Branco



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Sex Male | Date of birth 10/08/1986 | Nationality Portuguese

DESIRED EMPLOYMENT

Firmware Development

WORK EXPERIENCE

May 2015 – Present

Firmware Engineer

LiveDrive

www.livedrive.pt

www.i2d.co

- PERFORMED FUNCTIONS:
- Firmware Development (C Language)
- Production Monitoring

TECHNICAL ENVIRONMENT

MPLABX, TCP/IP, GPRS, Accelerometer, GPS, AGPS, PIC32MX

October 2014 – May 2015

Electronics Engineer

LMIT, SA

www.wisemetering.com

www.lmit.pt

- PERFORMED FUNCTIONS:
- Firmware Development (C/C++)
- Hardware Designer
- Testing new features
- Production Monitoring

- Software used:
- CadSoft EAGLE PCB Design
- Eclipse Luna

TECHNICAL ENVIRONMENT

Eagle, Eclipse Luna, Arduino, TCP/IP, SOAP, RS232, MODBUS, 1-WIRE, SPI, I2C

June 2012 – October 2014

Hardware/Firmware Developer of Ziphius**Azorean (YDreams Spin-Off)**www.azorean.euwww.myziphius.com▪ **PROJECT SCOPE:**

- Develop a whole new product for masses from scratch. Evolved from the beginning (first prototype) until the last PCB layout to production.
Develop the Firmware related with BLDC motors using a Freescale microcontroller (ARM Architecture).

▪ **PERFORMED FUNCTIONS:**

- Hardware (Schematic and Layout) – 4 Layer Board
- Firmware (C Language) through Atmega and Freescale MicroControllers (ARM).
- Unit Tests / Integrated Tests / Enclosure
- Prototyping
- Locating and negotiating electronic components with manufacturers for industrial production.
- Documentation

▪ **SOFTWARE USED:**

- Altium Designer
- Saturn PCB Toolkit
- Eclipse Luna
- CodeWarrior for Micro Controllers IDE

TECHNICAL ENVIRONMENT

Altium, LT-Spice, Arduino, Freescale KL04, CodeWarrior IDE, BLDC, RS232, SPI, PWM, Digital/Analogue Electronics

October 2011 – June 2012

Electronic Engineer & Hw Developer**YDreams Portugal** – www.ydreams.com

- Field Engineering.
- Hardware Researcher, Debugger, Repair and Designer.
- Soldering SMD Components.
- Firmware for Microcontrollers 8/16/32 bit such as PIC and ATMEGA.
- Development with sensors (IR, Capacitive, Piezoelectric, Ultrasonic), Wireless Communications (Transceivers 433/868 Mhz, Bluetooth and Wifi Protocol) and Accelerometers.

EDUCATION AND TRAINING

September 2006 – September 2012

Degree in Electronic Engineering, Telecommunications and Computers**Higher Institute of Engineering of Lisbon**

Instituto Politécnico de Lisboa – Instituto Superior de Engenharia de Lisboa

Technical Knowledge:

- Development in Oriented Objects Language (Java)
- Electronics
- Network Computing
- Embedded Systems
- Telecommunications Fundamentals
- Operating Systems
- Management Systems
- Signals and Systems

September 2009 – February 2010

Erasmus**Brno University of technology - Faculty of Information Technology and Faculty of Electrical Engineering and Communication**

September 2001 – July 2005

Computer Science**Escola Secundária Infante D. Pedro – Alverca do Ribatejo**

- Applying languages in environments of software development.
- Analyzing and operating the services and functions of operating systems, namely in Windows and Linux Systems.
- Developing Data Base through Microsoft Access and SQL.
- Developing Algorithms.
- Developing in Pascal, C and VB6.

PERSONAL SKILLS

Mother tongue Portuguese

Other Language English

Communication skills

- Ability to lead / manage other firmware engineers;
- Creativity in problem solving;
- Ability to learn new skills and work with new technologies;
- Hands on attitude to work through problems;
- Desire to grow as a Professional;
- Ability to adapt in multicultural environments, acquired in Erasmus experience;
- Honesty, sense of responsibility and understanding of constructive criticism;

Job-related skills**Good knowledge and experience in both Software and Hardware environments, such as:**

- Programming Languages Development: **Java, C, Pascal, VB6** and **Assembly**;
- Basic Knowledge of Scripting Language(**Shell Script**);
- Basic Knowledge of **GitHub**
- Development in **MATLAB**;
- Development Firmware for Microcontrollers such as **PIC10/16/18/24** and **PIC32MX** Microchip (MPLABX) and **ATmega168/328** (Arduino IDE);
- Knowledge of Hardware development (devices, prototypes);
- Ability in soldering **SMD Components**;
- Ability to work with many protocols like **1-Wire, RS-485 (ModBus), RS232, SPI, I2C**;

ADDITIONAL INFORMATION**Projects**

- Obtained an average grade of 17 (out of 20) in final university project, that was based on an Ultra-Light prototype with GPS technology, Radio Communication (Transceiver) and data memorizing, associated to Electronics, Telecommunications, Hardware and Software Development (C++ through Google Earth API). (Photos upon Request)

Honours and awards

- Won Engadget Insert Coin New Challengers 2013 (Big Prize and Reader's Choice) with Ziphius project (<http://www.engadget.com/2013/03/18/insert-coin-new-challengers-winner-ziphius-backstage-expand-video/>)
- Advanced PCB Layout Course (High Speed) – Fedevel Academy.