



# André Rodrigues Almeida

## Curriculum Vitae

### Introduction

#### About me

Academic degree obtained in Electronic and Telecommunications Engineering, working in a technological organization of the same field. With a professional interest in developing systems software and web applications (front-end).

#### Personal Info

Birthdate 14 February 1989  
Nationality Portuguese  
Residence Aveiro –Portugal  
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🐙 <https://github.com/r0drig>

### Skills

#### General

Platforms Windows / Linux  
Language **English** *Fluent conversation and competence in writing and comprehension*

#### Programming languages and frameworks

Competent in C, Javascript, php, AngularJS, **markup**(HTML5, XML) **style sheet**(CSS)  
Basic skills in JAVA, C++, MatLab

#### Computational tools

Git, SVN, Ms-Office, LaTeX, Visual Studio Code, Eclipse, IntelliJ IDEA, Atlasian (Jira, wiki, Fisheye)

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## Professional Experience

### Altice Labs

- 16/08/2013–  
in progress **Software engineer**, ALTICE LABS, Aveiro.
- o **Employer** - Withus-Innovation and technology, Lda, Street Dr. Mário Sacramento, Colombo Building I, 177, 1.o Q, 3810-106.
  - o **Description** - At the moment I am working as a service provider in the Network Systems Development department of Altice Labs - R. Eng. José Ferreira Pinto Basto, Aveiro, 3810-106 PORTUGAL. My role entails the development of software in the scope of local management group of network equipments.

### Main professional projects

- 05-2019–in progress **SmartMesh Wi-Fi**.  
End-to-end service for providing smart mesh Wi-Fi network at customers' homes.  
**Involvement:** Development of the local management web application for the extenders network equipments, when these function as a route AP (SmartMesh Standalone).
- 01-2017–in progress **CPE products (Costumer Provider Equipments)**.  
End-of-network client products in the following technologies:
  - o **FGW (FiberGateway)**: Optical fiber gateway for FTTH and B2B scenarios;
  - o **DOCSIS** Coaxial cable gateway.  
**Involvement:** Development of the local management web application for these equipments requested by the following operators: MEO, SFR.
  - o Development of the web app in AngularJS, in a continuous integration with the FW development team and in collaboration with the usability team in its design;
  - o Orientation of new employee in the development and support of it.
- 11-2014–in progress **OLT**.  
Network core equipments with Ethernet, GPON, NGPON2 for the management of terminal equipments.  
  
**Involvement:**
  - o Involved in a team of 4 people in developing the product's graphical interface using AngularJS (deprecated).
  - o Occasional involvement in the core application level (manager) and product CGIs.
- 10-2013–11-2017 **uMSAN48V**.  
Network terminal equipment with GPON and Ethernet uplink technologies that enables reuse of existing copper networks to provide triple play (voice, data and video) services.  
  
**Involvement:** Involved in a team of 3 people in the following applications:
  - o Equipment management backend software (business rules);
  - o CGI app of XML parsing;
  - o Web client application (WebTi).Development in C and Javascript.
- 08-2013–11-2014 **RFO – Radio Frequency Overlay**.  
Equipment of analog TV signal transport over optical fiber.  
  
**Involvement:** Development of CLI application in C (consultation of states and configurations).

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## Secondary professional projects

- 06-02-2019–  
in progress **WDG (Web Development Group).**  
Participation in an informal group at the company level. Participation in monthly meetings with the purpose of sharing and disseminate with other departments, new technologies and methodologies of developing software.
- 05-2018–10-2018 **Trakiii, project developed in the scope of HAL2018.**  
**Purpose:** Conception and prototyping of a system that allows the detection and an estimation of the average size of a queue of people, as well as its average waiting time in it. Scenario used was the Altice Labs campus canteen.
- Involvement:** Involved in a team of 4 people in the conception and development of the image processing algorithm and calculation of queue occupancy estimation. Development of system core made in C++, using OpenCV image processing library.

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## Academic education

- 2007–2013 **Higher education, Aveiro University, master's degree.**  
Integrated Master of Electronic Engineering and Telecommunications.
- Masters dissertation:**
- **Name:** Automotive Ethernet Resource Reservation;
  - **Description:** Development of simulations of the resource reservation mechanism SRP (Stream Reservation Protocol) in OMNeT++. Models and simulations built in C++ over the INET framework in automotive Ethernet network scenarios.
- 2004–2007 **High school, Alves Martins Secondary School, Viseu.**  
Sciences and technologies

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## Events

- 7, 8 and 9 of  
September 2018 **Sunset Hackathon 2018, organized by Hardware city, Themes:** Home automation; PLCs; Sensors; IoT.  
**Challenge:** Participation in a team of 5 elements where it was proposed the development of a light control system (prototype) in a hotel room controlled by voice commands and through automatic detection of occupancy of space and movement in the room. Link: <https://github.com/r0drig/roomControlLights>
- 21 and 22 of  
February 2018 **Hackathon Altice Labs, organized by Future Labs of Altice Labs, Theme:** solve a specific problem related to Altice Labs Campus, in order to make it more practical, sustainable and dynamic. Contribute to new smart living products and services..  
Participation in a team of 3 elements, having reached 2nd place – HAL2018

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## Additional formation

- 04-07-2019 **Workshop, Kubernetes, organized by Altice Labs.**  
Platform to orchestrate services in containers and automate its deployment.
- 30-05-2019 **Techdays, 100<sup>o</sup> Tech Day Training Session about Docker technology, promoted by Altice Labs.**  
How to deploy applications in micro-service based architectures.

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- 08-09-2018 **Workshop, Raspberry Pi**, promoted by Hardware city.  
Introduction to raspberry pi and GPIOs.
- 15/06/2018 **Workshop, UNITY**, organized by Altice Labs.  
Introduction to the UNITY tool (interactive application creation platform).
- 07/02/2018 **Workshop, LUNA**, organized by Altice Labs.  
How to build interactive television applications using the LUNA platform.
- 2016 **Free Japanese Course**, *held at the University of Aveiro*, with the duration of 48 hours.
- 2015–2016 **Online course in “Full Stack Web Development”**, *from the University of Hong Kong*, sponsored by the "Coursera" education platform..  
  - HTML, CSS and JavaScript
  - Front-End Web UI Frameworks and Tools
  - Front-End JavaScript Frameworks: AngularJS
  - Multiplatform Mobile App Development with Web Technologies
- 2015 **Online course in “Software Security”**, *from the Universidade of Maryland*, sponsored by the "Coursera" education platform..  
  - Software Security
- 2012 **Workshop, Automation**, Held in Bresimar company in Cacia.
- 2012 **Free German Course**, *held at the University of Aveiro*, with the duration of 60 hours, corresponding to the A1.1 level of QEER.
- 2007 **English course**, *International House school, Viseu*.  
FCE – “First Certificate in English” Achievement from the University of Cambridge, corresponding to the B2 level of QEER.