

CARLOS SIMÕES

ELECTRICAL AND COMPUTER ENGINEER

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ABOUT ME

Enthusiastic soon-to-be engineer, eager to learn and make a positive impact on the world through work and life. I strongly believe in technology as an enabler of change, and would like to help steer this change in the right direction.

My interests include Robotics, Artificial Intelligence, Computer Vision and Machine Learning.

MY EDUCATION

- MSc Electrical and Computer Engineering**
IST-Instituto Superior Técnico [Lisboa, Portugal](#) [2018 – Ongoing](#)
 - Major: Systems, Decision and Control [Decision & Control & Robotics, Systems and Signals]
 - Minor: Computers [Computer Architecture and Network Management]
- BSc Electrical and Computer Engineering** [UC-Universidade de Coimbra](#) [Coimbra, Portugal](#) [2015 – 2018](#)
- Technological Specialization Course in Energy and Automation** [Instituto Superior de Engenharia de Coimbra](#) [Coimbra, Portugal](#) [2014-2015](#)
 - Plan, program, install and maintain Energy equipment and installations
 - Robotic systems and control systems: Industrial and Home automation
- Professional Course in Renewable Energy** [Escola Secundária de Avelar Brotero](#) [Coimbra, Portugal](#) [2011 - 2014](#)

MY EXPERIENCE

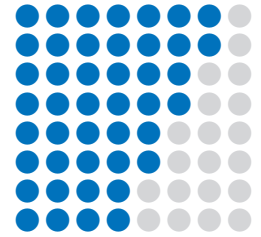
- General Coordinator of the Pedagogy Department**
Electrical Engineering Student Association [Coimbra, Portugal](#) [2017 – 2018](#)
 - Implemented the "Delegates of the Year"
 - Raised awareness and pedagogical training of both teachers and students
 - Launched and Promoted pedagogical surveys and Pedagogical Forums
 - Restructured the curriculum reform of MIEEC
- Internship**
Installatiebedrijf Andriessen [IJsselstein, Utrecht, Netherlands](#) [2014 – 2014](#)
 - Designed and developed in AutoCAD 3D and 2D for the BMV Veiden project
- Internship**
BIG Mat Centro Torneiras [Coimbra, Portugal](#) [2014 – 2014](#)

ACOMPLISHMENTS

- Computer Vision Basics [University at Buffalo](#) [2020](#)
- Getting Started with AWS Machine Learning [Amazon Web Services \(AWS\)](#) [2020](#)
- MOOC - Simulação e Controlo de Drones [Instituto Superior Técnico](#) [2020](#)
- MOOC - Matrices de Markov 2020 [Instituto Superior Técnico](#) [2020](#)
- Problem Solving (Basic) [HackerRank](#) [2020](#)
- Python (Basic) [HackerRank](#) [2020](#)
- Top 3% of Students Award [University of Coimbra](#) [2016-2017](#)
- TechChallenge2017 (2nd Place) [hosted by blue-infinity](#) [2017](#)
- Mérito Académico da ADAPCDE [Mário Loureiro Engenharia,Lda](#) [2014](#)

HARD SKILLS

Python
Matlab
C/C++
Version Control, Git
MySQL
Signal Processing
PHP, HTML, CSS
Java



MY PROJECTS

Master's Thesis

ISR - Instituto de Sistemas e Robótica
2020 - Ongoing, IST

Smart Office Illumination

C++, MATLAB and Arduino

Real-time control of a smart office illumination system using Arduinos and Raspberry Pi

Artificial Intelligence

Python

-Airline Scheduling And Routing (ASAR) problem. Implementation of A* Algorithm

-Addresses the problem of fire detection in a museum

Travelling salesman problem (TSP)

Java

The ant colony optimization (ACO) algorithm

Control of a Flexible Robot Arm Joint

Matlab

Designed the plant model and the controller

Veterinary hospital

MySQL and PHP

Veterinary hospital database and web application

Software to Manage a Parking Lot

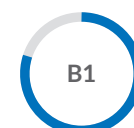
C, C/C ++, MSAccess

Management of a parking Lot where a graphic platform and database has been integrated

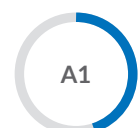
SOFT SKILLS

Curious Responsible Persistent Direct
Creative Persuasive Collaborative
Adaptable Emotional intelligent

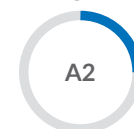
LANGUAGES SKILLS



English



Spanish



French

WHAT I ENJOY

- [Travel](#)
- [Getting lost](#)
- [Chess](#)