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 🎓
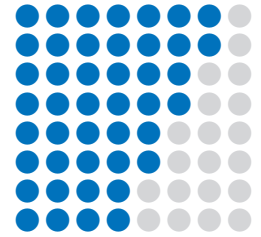**Escola Secundária de Avelar Brotero** 📍 Coimbra, Portugal 📅 2011 - 2014

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 - Matrizes 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* Algoritm
-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
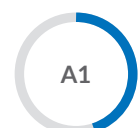Management of a parking Lot where a graphic platform and database has been integrated

SOFT SKILLS

Curious Responsible Persistent Direct Creative Persuasive Collaborative Adaptable Emotional intelligent
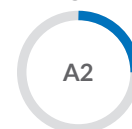
LANGUAGES SKILLS

B1 English
A1 Spanish
A2 French

WHAT I ENJOY

🌐 Travel
📰 Getting lost
♟ Chess