CARLOS VIEIRA

Electrical and Computer Engineering

12 Jan. 1999

🌐 Website & Portfolio →
📞 +351 916 593 118
@ car.vieira@outlook.pt
in CarlosVieira99   ⬛ CarlosVieira99
🚗 B1 Category   📍 Porto, Portugal

ABOUT ME

Student of Electrical and Computer Engineering, currently attending the Master of Autonomous Systems, with strong theoretical & practical knowledge alongside a passion for engineering. Extremely motivated to work on creative and entrepreneurial projects. Programming, PCB design and microcontrollers are some of its strengths. In search of becoming a good communicator for small and large audiences combined with a spirit of leadership.

EDUCATION

2020 – Today **Master in Autonomous Systems**
Laboratório de Sistemas Autónomos - Instituto Superior de Engenharia do Porto - Instituto Politécnico do Porto

2016 – 2020 **Bachelor in Electrical and Computer Engineering**
Instituto Superior de Engenharia do Porto - Instituto Politécnico do Porto
GPA - 14.30 [scale: 0 - 20]

PROJECTS

July 2021 **UNEXUP Deployment System: Range Extension** **Laboratório de Sistemas Autónomos**
Development of a possible Tether Management System (TMS) solution to auxiliate the UX1-Neo robot in its missions. Details on the project are confidential.

February 2021 **Collision Avoidance System for Big UAVs** **Laboratório de Sistemas Autónomos**
The aim of this project was to create a flexible obstacle detection system for large UAVs. Final Classification of 19 Points.

July 2020 **3D Indoors Mapping: A Real-Time Wireless LiDAR Scanner** **Instituto Superior de Engenharia do Porto**
Final graduation project. Development of a three-dimensional scanner for indoor spaces, with applications related to architecture and civil engineering. Final Classification of 19 Points.

January 2020 **Pikasso Project** **Instituto Superior de Engenharia do Porto**
2D drawing and writing machine, controlled via Wi-Fi with a graphic interface on the computer. Project developed in C + Python language. Final Classification of 19 Points.

COMPLEMENTARY TRAINING

3/2021 – 9/2021 **Link me Up - 1000 Ideias** **Instituto Politécnico do Porto**
Contest of Entrepreneurship and Creativity. Regional Stage Winner.

3/2019 – 9/2019 **MATLAB Certifications** **MathWorks - Training Services**

1/2019 – 6/2019 **Erasmus in Vilnius, Lituânia** **Faculty of Electronics - Vilnius Gediminas Technical University**

ADDITIONAL ACTIVITIES

2021 - Hoje **Academia de Robótica** **Colégio Luso-Francês | Instituto Superior de Engenharia do Porto**
Teacher of extra-curricular activities related with robotics, electronics and programming.

2021 - Today **Ascendium Junior Consulting** **Instituto Superior de Engenharia do Porto**
Team Leader & Director of the Projects Department of a Junior Iniciative.

2016 - Today **Volunteering** **Various**
Currently: ISEP Student Ambassador | ESN Buddy
Past Experiences: Serralves | FAP no Bairro | Holiday Camp Monitor | Just a Change

2016 - 2020 **Amateur Theater Actor** **Acting Group "Máquina de Nuvens"**

2012 – 2019 **Federated Basketball Athlete** **Various Teams**

LANGUAGE SKILLS

Portuguese Native
English ●●●●●
Spanish ●●●●○
French ●●○○○
Lituanian ●○○○○

PROGRAMMING LANGUAGES

Python	C	C++	MATLAB
Octave	LaTeX	Assembly
HTML	CSS	PHP	JavaScript
SQL	LADDER	Arduino

MAIN WORK TOOLS

VS Code	Atmel Studio	CubeIDE
ROS	KiCAD	PSpice	Qt
SIMATIC STEP7	SoMachine
MeshLAB	ParaView	ROS