

Paula A Graça

Porto, Portugal

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Education

PhD in Electrical and Computer Engineering

FACULTY OF ENGINEERING OF THE UNIVERSITY OF PORTO

- Focus on underwater acoustics, digital systems, signal processing and underwater robotics.

Porto, PT

2021 - Present

BSc+MSc in Electrical and Computer Engineering

FACULTY OF ENGINEERING OF THE UNIVERSITY OF PORTO

- Branch of Telecommunications, Electronics and Computers, with focus on microelectronics and signal processing.

Porto, PT

2015 - 2020

ERASMUS+ Program - Electrical and Computer Engineering

TECHNICAL UNIVERSITY OF MUNICH

- The Erasmus+ program was an outstanding experience, since it brought me the opportunity to live and study in Germany. Being in Munich, allowed me to have a unique first-hand contact with new cultures, and experience a different education system while improving my skills in various new fields of knowledge.
- Minor courses in communication acoustics and audio technology, VLSI design and nanoelectronics.

Munich, DE

Sep 2018 - Sep 2019

Experience

Invited Assistant Lecturer

FACULTY OF ENGINEERING OF THE UNIVERSITY OF PORTO

- Laboratory of Digital Systems and Circuits I

Porto, PT

Oct 2020 - Present

Researcher

CENTRE OF ROBOTICS AND AUTONOMOUS SYSTEMS (INESC TEC)

- AutoMon Project - responsible for software development and further technical support

Porto, PT

Oct 2020 - Present

Undergraduate Researcher

GROW PROJECT - CENTRE OF ROBOTICS AND AUTONOMOUS SYSTEMS (INESC TEC)

- GROW Project - my goals were to improve the localization precision of an experimental USBL system for short and long range and to develop a digital signal processing architecture in HDL.

Porto, PT

Feb 2020 - Oct 2020

Technical Supporter

CIRC

- CIRC is an E-Scooter Start-Up, whose goal is to provide "cleaner, safer, better-connected journeys".
- As a technical supporter, I performed quality checks on the scooters, distributed them around the city and provided mechanical support.

Munich, DE

Jun - Sep 2019

Monitor at SPE and MUP

FACULTY OF ENGINEERING OF THE UNIVERSITY OF PORTO

- During two weeks a year, I volunteered to monitor several groups of high school students through scheduled activities that promote and explain more about Electrical and Computer Engineering (SPE | MUP)

Porto, PT

2017 - 2018

Publications

Experimenting with RF-433MHz for Low-Cost Short Range for Edge Device Communications

FILIPA S. BARROS, PAULA A. GRAÇA AND HÉLIO S. MENDONÇA

- IJUP 2020 - 13th Meeting of Young Researchers of the University of Porto

Event Organization

IEEE R8 Student & Young Professional Congress 2018, Porto

Porto, PT

HEAD OF BRANDING - ORGANIZATION

25 - 29 Jul 2018

- My role as Head of Branding was to lead and manage the team that creates all the branding and overall image of the event, run the social media, supervise the *website* and communicate with the media.
- In the event, each organization member received an IEEE medal of recognition from IEEE President and CEO Jim Jefferies

Competitions and Awards

Feb 2020	Google Hashcode 2020 , PARTICIPANT	Porto, PT
Oct 2019	EUvsVirus Hackathon , TEAM EUPHONIC	Online
Oct 2019	IEEEExtreme 13.0 , NATIONAL 6 TH PLACE / INTERNATIONAL 714 RD PLACE	Maia, PT
Apr 2019	Neeil It at CEiiA , 4TH PLACE	Matosinhos, PT
Nov 2017	BEST SciTeCH'17 , 1 ST PLACE - WINNER	Porto, PT
Feb 2017	Google Hashcode 2017 , PARTICIPANT	Porto, PT
Oct 2016	POP'16 - Programming for Optimization and Performance , PARTICIPANT	Porto, PT

Additional Training

DEEPFIELD - Deep Learning for Image Classification and Segmentation

PARTICIPANT

Online

19-23 Jul 2021

- Course on Machine Learning and Deep Learning techniques by Polytechnic University of Milan.

22nd European Agent Systems Summer School (EASSS 2021)

PARTICIPANT

Online(Porto)

19-23 Jul 2021

- The main goal of EASSS is to provide an exchange of knowledge among individuals and groups interested in various aspects of autonomous, agent-based and multi-agent systems research and practice.

Introduction to Python

PARTICIPANT, SCORE: 20/20

Online

8 May 2020

- 16 hour training session on Python hosted by OERN.

Introduction to Machine Learning with Python

PARTICIPANT, SCORE: 17/20

Online

19 Jun 2020

- 16 hour training session on Machine Learning hosted by OERN.

Introduction to real-time video processing on heterogeneous computing platforms - Zynq SoC

PARTICIPANT

Porto, PT

26 - 27 Nov 2019

- Workshop exploring the capabilities of Xilinx Zynq SoC, through practical exercises with HDL design and an FPGA board.
- Lectured by Prof. Tomasz Kryjak from the Computer Vision Laboratory in AGH University of Science and Technology, Kraków Poland.

IEEE Leadership Camp 2019

IEEE UP SB SECRETARY

Lisbon, PT

4 - 6 Oct 2019

- 3 day event that gathers members in leadership positions from each IEEE Portugal student branch.
- The activities focused on project management, team building, recruitment techniques and leadership skills.

Microsoft IoT Labs

PARTICIPANT

Porto, PT

14 Feb 2017

- A day long *workshop* that focused on Raspberry Pi and IoT, introducing their relation with the Windows 10 IoT Core, Node-RED and connection to the cloud.

Skills

Tech Skills	Matlab ^(4/5)	VHDL ^(4/5)	Verilog ^(4/5)	C ^(3/5)	C++ ^(3/5)	Python ^(3/5)	Embedded Systems ^(4/5)	Signal Processing ^(4/5)
Soft Skills	Teamwork	Communication	Critical	Observation	Problem-Solving	Adaptability		
Design Tools	Autodesk Fusion 360	Adobe Photoshop	Adobe Premiere	Adobe Illustrator				

Languages

Native Portuguese

Others English (advanced), Spanish (elementary), German (elementary)

Extracurricular Activity

IEEE PT

Portugal

SOCIAL MEDIA MANAGER

Mar 2020 - Present

- I am responsible for coordinating all social media accounts of IEEE Portugal, making sure to make visible all activities of the IEEE Portuguese organizational units.

IEEE UP Student Branch

Porto, PT

ACTIVE MEMBER

Sep 2016 - Present

- Integrating this student branch has allowed me to develop important communication and team management skills and gave me the opportunity to organise diverse events, such as talks, workshops and technical weeks.
- Robotics and Automation Society member since 2017; Design and Communication department 2017-2020; Secretary 2019/2020