

# Paula A Graça

Porto, Portugal

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## Education

### BSc+MSc in Electrical and Computer Engineering

FACULTY OF ENGINEERING OF THE UNIVERSITY OF PORTO

Porto, PT

2015 - 2020

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

### ERASMUS+ Program - Electrical and Computer Engineering

TECHNICAL UNIVERSITY OF MUNICH

Munich, DE

Sep 2018 - Sep 2019

- Personally, 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 completely 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.

## Experience

### Invited Assistant Lecturer

FACULTY OF ENGINEERING OF THE UNIVERSITY OF PORTO

Porto, PT

Oct 2020 - Present

- Responsible for practical classes of the Laboratory of Digital Systems (LSDI) course

### Researcher

CENTRE OF ROBOTICS AND AUTONOMOUS SYSTEMS (INESC TEC)

Porto, PT

Oct 2020 - Present

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

### Undergraduate Researcher

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

Porto, PT

Feb 2020 - Oct 2020

- 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.

### Technical Supporter

CIRC

Munich, DE

Jun - Sep 2019

- 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.

### Monitor at SPE and MUP

FACULTY OF ENGINEERING OF THE UNIVERSITY OF PORTO

Porto, PT

2017 - 2018

- 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)

## 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 - 13<sup>th</sup> Meeting of Young Researchers of the University of Porto

## Event Organization

### IEEE R8 Student & Young Professional Congress 2018, Porto

HEAD OF BRANDING - ORGANIZATION

Porto, PT

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

Oct 2019 **EUvsVirus Hackathon**, TEAM EUPHONIC

Online

Oct 2019 **IEEEEXTREME**, NATIONAL 6<sup>TH</sup> PLACE / INTERNATIONAL 753<sup>RD</sup> PLACE

Maia, PT

Apr 2019 **Neeel It at CEiiA**, 4TH PLACE

Matosinhos, PT

Nov 2017 **BEST SciTeCH'17**, 1<sup>ST</sup> PLACE - WINNER

Porto, PT

Fev 2017 **Google Hashcode 2017**, PARTICIPANT

Porto, PT

Oct 2016 **POP'16 - Programming for Optimization and Performance**, PARTICIPANT

Porto, PT

## Additional Training

### Introduction to Python

Online

PARTICIPANT - 20/20

8 May 2020

- 16 hour training session on Python hosted by OERN.

### Introduction to Machine Learning with Python

Online

PARTICIPANT - 17/20

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

Porto, PT

PARTICIPANT

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

Lisbon, PT

IEEE UP SB SECRETARY

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

Porto, PT

PARTICIPANT

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

<b>Tech</b>	Matlab (4/5)	VHDL (4/5)	Verilog (4/5)	C (3/5)	C++ (3/5)	Python (3/5)	Microcontrollers (3/5)	Signal Processing (4/5)
<b>Soft</b>	Teamwork	Communication	Critical	Observation	Problem-Solving	Adaptability		
<b>Design Tools</b>	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