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Renato Branco Ferreira

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Contacts

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Curriculum

Renato Branco Ferreira graduated in Electronics and Telecommunication Engineering in 2018 from Instituto Politécnico de Castelo Branco, Portugal. He earned a master's degree in Telecommunications and Computer Engineering and completed his Ph.D. in Information Science and Technology in 2022 at ISCTE- Lisbon University Institute. In 2022, he joined ISCTE-Lisbon University Institute as an invited Professor to contribute to subjects related to Entrepreneurship & Innovation. He is a dedicated researcher at IT (Instituto de Telecomunicações), Portugal, since 2017, actively participating in numerous national and international research projects.
He was awarded the "Prêmio Revelação 2023 do ISCTE - Escola de Tecnologias e Arquitetura", recognising his exceptional performances and his potential to positively impact society.
Additionally, he is one of the co-founders of Swatter Company, a Portuguese startup established in 2021. Swatter Company is making significant strides in security and defense systems research and is experiencing growth in the industry with highly qualified HR specialized in the areas of electronics, telecommunications, and IT.

Research Interests

Wireless Technologies - Radio Systems

Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE-Instituto Universitario de Lisboa	PhD	Ciências e Tecnologias da Informação	2022

ISCTE-Instituto Universitario de Lisboa	M.Sc.	Engenharia de Telecomunicações e Informática	2018
Instituto Politecnico de Castelo Branco	Licenciate	Engenharia Electrotécnica e Telecomunicações	2016
Instituto Politecnico de Castelo Branco	Technical Specialization Course	Electrónica e Telecomunicações	2013

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2025/2026	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Management; Bachelor Degree in Digital Technologies and Health;	No
2025/2026	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2025/2026	1º	Entrepreneurship and Innovation I	Bachelor Degree in Mathematics Applied and Digital Technologies;	No
2025/2026	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Automation;	No
2025/2026	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Educational Technologies;	No
2024/2025	2º	Project Planning and Management	Bachelor Degree in Digital Technology and Sustainable Built Environment;	No
2024/2025	2º	Project Planning and Management	Bachelor Degree in Digital Technologies and Management; Bachelor Degree in Digital Technologies and Health;	No
2024/2025	2º	Project Planning and Management	Specialization Degree in Project Management and Agile Software Development; Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2024/2025	2º	Project Planning and Management	Bachelor Degree in Mathematics Applied and Digital Technologies;	No
2024/2025	2º	Project Planning and Management	Bachelor Degree in Digital Technologies and Automation;	No
2024/2025	2º	Project Planning and Management	Bachelor Degree in Digital Educational Technologies;	No
2024/2025	2º	Introduction to Entrepreneurship in a Technology-based Project	Summer course in Introduction to entrepreneurship in a technology-based project;	No

2024/2025	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Management; Bachelor Degree in Digital Technologies and Health;	No
2024/2025	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2024/2025	1º	Entrepreneurship and Innovation I	Bachelor Degree in Mathematics Applied and Digital Technologies;	No
2024/2025	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Automation;	No
2024/2025	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Educational Technologies;	No
2023/2024	2º	Project Planning and Management	Bachelor Degree in Digital Technologies and Management; Bachelor Degree in Digital Technologies and Health;	No
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technologies and Management; Bachelor Degree in Digital Technologies and Health;	No
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Mathematics Applied and Digital Technologies;	No
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technologies and Automation;	No
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Educational Technologies;	No
2023/2024	2º	Project Planning and Management	Specialization Degree in Project Management and Agile Software Development; Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2023/2024	2º	Project Planning and Management	Bachelor Degree in Mathematics Applied and Digital Technologies;	No
2023/2024	2º	Project Planning and Management	Bachelor Degree in Digital Technologies and Automation;	No
2023/2024	2º	Project Planning and Management	Bachelor Degree in Digital Educational Technologies;	No
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Management; Bachelor Degree in Digital Technologies and Health;	No

2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Mathematics Applied and Digital Technologies;	No
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Automation;	No
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Educational Technologies;	No
2022/2023	2º	Project in Digital Technologies I		No
2022/2023	2º	Project in Digital Technologies I		No
2022/2023	2º	Project in Digital Technologies I		No
2022/2023	2º	Project in Digital Technologies I		No

Supervisions

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Miguel Alexandre Moreira Romana	RF-Based Drone Detection using Deep Learning approaches	English	Delivered	Iscte
2	Miguel Nuno Godinho Matias	Dissertação	--	Developing	Iscte
3	Ricardo Filipe Duarte Ribeiro	UAV Detection from Acoustic Signals Using Deep Learning Techniques	--	Developing	Iscte
4	Pedro Alexandre Esteves Duarte	RF-based UAV Detection using a Deep Learning Approach	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Tiago Francisco da Costa Soeira	Smart Spectrum Analyzer for UAV link detection using Software Defined Radios	Portuguese	Iscte	2024
2	Filipe Alexandre Sequeira Gonçalves	Signal power directivity analyzer for UAV links using Software Defined Radios	English	Iscte	2024

• M.Sc. Final Projects

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Vasco Henrique Martínez Pestana	Business Plan - Keep it Safe 24/7	English	Iscte	2024

Total Citations

Web of Science®	107
Scopus	199

Publications

• Scientific Journals

- Scientific journal paper

1	Branco Ferreira, R., Gaspar, J., Sebastião, P. & Souto, N. (2022). A software defined radio based anti-UAV mobile system with jamming and spoofing capabilities. Sensors. 22 (4) - Times Cited Web of Science®: 28 - Times Cited Scopus: 39 - Times Cited Google Scholar: 58
2	Pavia, J. P., Velez, V., Branco Ferreira, R., Souto, N., Ribeiro, M., Silva, J....Dinis, R. (2021). Low complexity hybrid precoding designs for multiuser mmWave/THz ultra massive MIMO Systems. Sensors. 21 (18) - Times Cited Web of Science®: 13 - Times Cited Scopus: 15 - Times Cited Google Scholar: 20
3	Gaspar, J., Branco Ferreira, R., Sebastião, P. & Souto, N. (2020). Capture of UAVs through GPS spoofing using low-cost SDR platforms. Wireless Personal Communications. 15 (4), 2729-2754 - Times Cited Web of Science®: 33 - Times Cited Scopus: 37 - Times Cited Google Scholar: 51
4	Branco Ferreira, R., Gaspar, J., Sebastião, P. & Souto, N. (2020). Effective GPS jamming techniques for UAVs using low-cost SDR platforms. Wireless Personal Communications. 115 (4), 2705-2727 - Times Cited Web of Science®: 33 - Times Cited Scopus: 44 - Times Cited Google Scholar: 84

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Gaspar, J., Ferreira, R. B., Sebastião, P., Souto, N. & Postolache, O. A. (2019). Anti-UAV mobile system with RTLS integration and user authentication. In 2019 International Conference on Sensing and Instrumentation in IoT Era (ISSI). Lisbon: IEEE. - Times Cited Scopus: 7

	- Times Cited Google Scholar: 9
2	Gaspar, J., Branco Ferreira, R., Sebastião, P. & Souto, N. (2019). Capture of UAVs through GPS spoofing. In 2018 Global Wireless Summit (GWS). (pp. 21-26). Chiang Rai: IEEE. - Times Cited Scopus: 40 - Times Cited Google Scholar: 57
3	Branco Ferreira, R., Gaspar, J., Souto, N. & Sebastião, P. (2019). Effective GPS jamming techniques for UAVs using low-cost SDR platform. In 2018 Global Wireless Summit (GWS). (pp. 27-32). Chiang Rai: IEEE. - Times Cited Scopus: 17

• Other Publications

- Other publications

1	Sebastião, P. & Branco Ferreira, R. (2018). Técnicas de Jamming GPS para UAVs não autorizados. Técnicas de Jamming GPS para UAVs não autorizados.

- Master's Dissertation

1	Branco Ferreira, R. (2018). Técnicas de Jamming GPS para UAVs não autorizados. - Times Cited Google Scholar: 2

Awards

Iscte 2023 Revelation Award - School of Technologies and Architecture (2024)
Silver Medal (world's top 100) - China International College Students' "Internet +" Innovation & Entrepreneurship Competition (2020)
ISTA Top Talent - Masters Degree (2018)
ISTA Top Talent - Masters Degree (2017)

Professional Associations

Instituto de Telecomunicações - Radio Systems - Lx (Since 2017)

Products

Product Type	Product Title	Detailed Description	Year
Patent	SISTEMA MÓVEL PARA IMOBILIZAR E DESVIAR DRONES NÃO AUTORIZADOS		2021