João Diogo Fernandes Louro

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EDUCATION

09/2013 -Lisbon, University of Lisbon - Instituto Superior Técnico, Integrated Masters in Aerospace Engineering, Major in 11/2018 Portugal Avionics, Minor in Control and Systems, 16/20 (top 30%) - Ranked #11 Engineering University in Europe and #1 in Portugal in the USNews 2018 University Ranking; - University course with the highest access grade in Portugal in the last two years.

09/2016 - 02/2017	Universitat Politècnica de Catalunya - ESEIAAT, Erasmus Program, 8.25/10	Barcelona, Spain
02/2017	- Ranked #12 Engineering University in Europe and #1 in Spain in the USNews 2018 University Ranking.	Эрап
WORK E	EXPERIENCE	
02/2018 -	GMV, Embraer, Master's Thesis Intern	Lisbon,
10/2018	- Master's thesis - development of a C++ application for end-to-end delay analysis of AFDX (Avionics Full-	Portugal
	Duplex Switched Ethernet) networks, the new standard in commercial aviation data buses;	
	 Work developed in contact with and under specifications of Embraer; 	
	- Detected inconsistencies in relevant research on worst-case end-to-end latencies in avionics networks.	
09/2017 - 02/2018	Data Science for Social Good Europe, Researcher	
	 Developed a machine learning-based Python application to pinpoint unlicensed swimming pools using RGB high-definition satellite imagery for the Municipality of Cascais, Portugal. 	
10/2017 - 02/2018	PrimeIT, Prime College Ambassador	
	 Established a connection between PrimeIT and my university, facilitating the company's presence in events. 	
07/2017 - 09/2017	University of Chicago Data Science for Social Good Fellowship, Research Fellow	
	- Worked with the Municipality of Rotterdam to develop a machine learning-based Pyhton tool to classify the use of Rotterdam's rooftops using aerial imagery and the Netherlands' building database;	
	- Maintained a close relationship with the representatives of the municipality, with weekly remote meetings;	
	- Awarded with a travel grant to present the work at the 2017 DSSG Conference, in Chicago, USA.	
LEADER	SHIP AND VOLUNTEERING EXPERIENCE	
09/2014 -	Aerotéc – Aerospace Engineering Students' Board, Senior Member	Lisbon,

09/2014 -	Aerotéc – Aerospace Engineering Students' Board, Senior Member	Lisbon,
02/2018	- Organized and taught a paid technical course with 30+ attendants;	Portugal
	- Coordinated visits to high schools, which included workshops and some vocational advice;	
	- Part of the team that competed in the 2017 Air Cargo Challenge, a European competition aimed at	
	aerospace engineering students. Achieved 15th place out of 28, with relatively low funding and support;	
	- Organized "Aerospace Weeks", week-long events joining prominent players in the Portuguese and	
	European aerospace industry and undergraduates.	
07/2014 - 09/2014	Leigos Missionários da Consolata, Informatics Teacher	Empada,
	- Taught classes to young adults and provided aid in a humanitarian mission's various actions;	Guinea-
	- Organized fund raiser campaigns and events, such as a live music dinner with 100+ attendants,	Bissau
	contributing to gather a total of over 5000 euros, which were offered to the humanitarian mission;	
	- Gained extensive public speaking experience while raising funds in churches and various events;	
	- Trip featured in the September 2014 edition of the Fátima Missionária magazine.	
05/2012 - 09/2013	Talitha Kum, Founder and Volunteer	Cardigos,
	- Organized gatherings of food and clothing items, which were distributed to people in need;	Portugal
	- Organized visits with a youth group to elderly and bedridden people.	

recnnicai	Experienced in C++, Python (Numpy, Pandas, Scikit-Learn), Matiab/Octave, C, Solidworks.
Skills	Some knowledge of Amazon Web Services, Microsoft Azure, SQL, HTML.
Languages	Portuguese (native), English (highly fluent), Spanish (conversational), French (conversational).
Honors	Highest university access grade in the Mação municipality of the 2012/13 academic year, near-perfect score on the
	Portuguese standardized math exam (196/200).
Certificates	Bloomberg Market Concepts, Siemens S7-1200 PLC & HMI from Scratch using TIA (Udemy).
Interests	History, Fitness, Winemaking, Free and Open Source Software.