

João Diogo Fernandes Louro

jd.louro@outlook.pt - (+351) 96 94 94 0 94 - <https://pt.linkedin.com/in/fernandeslouro>

EDUCATION

09/2013 - Present	Instituto Superior Técnico , <i>Integrated Masters in Aerospace Engineering, Major in Avionics, Minor in Control and Systems, 16/20 (Expected)</i>	Lisbon, Portugal
	- Ranked #11 Engineering University in Europe and #1 in Portugal in the USNews 2018 University Ranking;	
09/2016 - 02/2017	Universitat Politècnica de Catalunya - Barcelonatech , <i>Erasmus Program, 8.25/10</i>	Barcelona, Spain
	- Ranked #12 Engineering University in Europe and #1 in Spain in the USNews 2018 University Ranking.	

WORK EXPERIENCE

02/2018 - Present	GMV Innovating Solutions , <i>Master's Thesis Intern</i>	Lisbon, Portugal
	- Master's thesis – development of a C++ program for end-to-end delay analysis of AFDX (Avionics Full-Duplex Switched Ethernet) networks, the new standard in commercial aviation data buses.	
09/2017 - 02/2018	Data Science for Social Good Europe , <i>Researcher</i>	
	- Developed a Python remote sensing application to pinpoint unlicensed swimming pools using RGB high-definition satellite imagery for the Municipality of Cascais, Portugal.	
10/2017 - 02/2018	PrimeIT , <i>Prime College Ambassador</i>	
	- Established a connection between PrimeIT and Instituto Superior Técnico.	
07/2017 - 09/2017	Eric & Wendy Schmidt Data Science for Social Good Fellowship , <i>Research Fellow</i>	
	- Worked with the Municipality of Rotterdam to develop a machine learning-based Python tool to classify the use of Rotterdam's rooftops using aerial imagery and the Netherlands' building database;	
	- Maintained a close relationship with the partners, with weekly remote meetings;	
	- Awarded with a travel grant to present the work at the 2017 Data Science for Social Good Conference, in Chicago, USA.	
09/2014 - 02/2018	Aerotéc – Aerospace Engineering Students' Board , <i>Senior Member</i>	
	- Organized and taught a paid technical course on the construction of radio controlled aircraft with 30+ attendants, including flight sessions in aerodromes with experienced pilots;	
	- Coordinated visits to high schools, which included workshops on the building of rockets and awareness to the aerospace field, as well as 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.	

VOLUNTEERING AND LEADERSHIP EXPERIENCE

07/2014 - 09/2014	Leigos Missionários da Consolata , <i>Informatics Teacher</i>	Empada, Guinea-Bissau
	- Taught introductory classes on informatics to young adults and provided aid in a humanitarian mission's various actions;	
	- Organized fund raiser campaigns and events, such as a live music dinner with 100+ attendants, contributing to gather a total of over 5000 euros, which were offered to help with the missions' humanitarian efforts;	
	- Helped prepare following year's volunteers for a trip to Mozambique, providing advice, support and contacts;	
	- Trip featured in the September 2014 edition of the Fátima Missionária magazine.	
05/2012 - 09/2013	Talitha Kum , <i>Founder and Volunteer</i>	Cardigos, Portugal
	- Organized gatherings of food and clothing items, which were distributed to people in need;	
	- Organized visits with a youth group to elderly and bedridden people.	

ADDITIONAL INFORMATION

Technical Skills	<i>Experienced in C++, Python, Matlab/Octave, C, Solidworks.</i>
	<i>Some knowledge of Amazon Web Services, Microsoft Azure, SQL, HTML.</i>
Languages	Portuguese (native), English (fluent), Spanish (conversational), French (basic).
Honors	Highest university access grade in the Mação municipality of the 2012/13 academic year.
Certificates	Bloomberg Market Concepts.