Gonçalo Pinho

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Experience		
Temporary research fellowship at Politecn	ico di Milano in the D	ART group:
Member of the Mission Analysis Team fo	or the RAMSES Missio	on – full-time February 2024 – May 2024
• Define the mission requirements of thrust transfers using a tailored alg		while also exploring the research space for low- the several candidate trajectories;
Core member of aerospace engineering stu	ıdents of Técnico – Ae	eroTéc
Member at Rocket Experiment Division	(RED) - over 4 hours	a week October 2020 – September 2021
• Working within a project with over 80 persons, responsible for the control and simulation of a rocket;		
Member of AeroTéc's executive board -	over 3 hours a week	September 2020 - September 2021
Managing AeroTéc's image as well as its internal and external relations;		
Member at Semana Aeroespacial (SA) –	over 4 hours a week	September 2019 – September 2021
• Working in a team for contacting sponsors and speakers to take part of an annual event.		
Member of Polispace – the first space association of Politecnico di Milano. Currently, I worked as:		
Member of MEEVA (Polispace) - over 4 h	iours a week	October 2022 – December 2023
• Working in a team in for the development of a telemetry transmission/reception system.		
Education		
Bachelor's in aerospace engineering at l	ST (Instituto Superio	r Técnico). September 2018 – June 2021
Average: 16 (0-20)		
Master's degree in Space Engineering at	Politécnico di Milano	. September 2021 – December 2023
Average: 101 (0-110)		
Master Thesis Work : Evaluating FPGA Trajectory Guidance	A-Based Convex Opt	imization Methods for Onboard Low-Thrust
 Summary: the work investigated thardware, as an FPGA, an onboard space trajectory problems. 	he aspects to consider guidance algorithm th	r when deploying in a reconfigurable computing hat employs convex approaches to minimum fuel

Skills

- Experience in Matlab, Simulink, Python and CAD due to the development of several university projects;
- Experience in C/C++, Vivado and Vitis HLS due to the work developed during the master thesis;
- Experience in technical writing and editing skills (LaTex).

Interests

- Played professional basketball for 6 years and joined my university's basketball team;
- Performed and was part of a theatre group for over 1 year;
- Currently learning how to play piano and get to know about music theory overall.

Language competencies

- Portuguese: native language;
- English: fluent (speaking, reading and writing).
- Italian: currently learning (B1 level).