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To
European Space Agency (ESA)

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Dear Recruiter,

I am writing this letter following my application to the *Young Graduate Trainee for Microelectronics: Development of Integrated Circuits (12104)* opportunity. The excitement I felt after finding this opportunity, was truly amazing.

The curiosity about space and the fundamentals of the universe is a sweet and exciting topic for me. I still remember fondly the space encyclopedia I received as a kid from my mother, and despite being outdated, I still hold on and remember where we were 20 years ago. My master's in electronics and telecommunications engineering may not be daily coupled with the front line of the universe scientific discovery, but that doesn't stop me from accompanying SpaceX's launches, the news from CERN and exhaustively listening to the World Science Festival talks with Brian Greene (and even drag my veterinary housemate in the process). The long lasting fight for mapping the unknown is truly romantic to my heart, much like David Deutsch said "*the universe is not only queerer than we suppose, but queerer than we can suppose*".

Throughout my university experience, I've learned digital systems, RF design and semiconductor device fabrication, to context a few, and tried to broaden my knowledge to different areas, like the automotive industry, neurology, supply chain, web, and cloud infrastructure. One thing in common to all, was the surprising necessity and fit for FPGA/ASIC based improvements. This triggered the enthusiasm in FPGAs two months ago, making me grab my old audio synthesizer project and giving it go.

I am fresh out of university and I recognize my lack of experience. I also acknowledge my passion for science, long last excitement for the universe and the unknown, and appreciation for the scientific method and community.

Thank you for your attention and time. I look forward to hearing from you.

Best regards,

Diogo Correia