

# Motivational Letter - GSOC

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## 1 Motivational letter

This project tries to further the work performed by the Aerospace department in University Carlos III in Madrid. Right now the CR3BP is an open problem and I want to take the opportunity to contribute. As an Aerospace engineer in the process of getting my master's degree I find myself in a perfect position to do so.

The particularities of the present pandemic have severely reduced my communication capabilities with the university and since Spain is one of the most affected countries in the region I expect that the situation will hold for at least another month. Even though this is a problematic scenario to present this project I reckon that it will be possible to carry it out without much delay since everything can be coded at home and discussed with my mentor through the internet if need be, at least in the starting phase.

Along these lines, I have to conclude by expressing that I do not expect any other commitment apart from participating on GSOC; but the pandemic may force authorities to push my final exams into June. In any case, I'm not currently working and my exams should be out of the way by the first month in the worst case scenario.

As a final comment, my personal motivation is complemented by the fact that I am pending to choose a master's thesis to present on the next course. It would be really convenient for me if the works performed as open source for this year's GSOC could be further developed into a thesis to end my studies with.