Funding

Firstly, Cyclone have approached a number of sources for sponsorship, and have been very successful to date. Newbury Electronics, the owners of PCBTrain have agreed to sponsor the team to the tune of £150, with free PCBs. Additionally, they have agreed to offer their expertise in checking the PCBs that we have sent. To date, only around £50 of the £150 has been used, with the first round of PCBs. Thus, two more revisions of PCBs would easily be possible, in order to make more improvements if necessary, or to fix any inevitable issues that may arise. Additionally, we have been sponsored by HobbyKing, a large online Remote Controlled parts producer and seller who are providing us with a limited amount of free parts. To date, this amount has been around £500, but there is a possibility of more parts if necessary. This amount has allowed us to easily get the best, rather than cheapest components, maximising the chance of success of the project. However, the chance of needing more products is also low, given that a number of spares of every necessary part has been obtained.

In future, we also aim to complete a fundraising exercise, likely a Cake Sale in school, as, as well as being a successful fundraising mechanism, it also acts as good fundraising. Last year, CanSat (under the guises of Team Colossus and Team Impulse) the majority of the team were involved in a Cake Sale that raised just under £300.

Additionally, two member of the team (Ben and Daniel) are Arkwright Scholars, which contributes £200 per person annually to the school engineering department. This money could be used for CanSat if necessary. In fact, our school is also willing to sponsor the project (especially since we are this year’s only team) to the tune of a few hundred pounds if necessary, with money coming from the Engineering budget. However, we hope to keep these costs to the minimum necessary, by continuing to seek corporate sponsorship and through a successful fundraising event in school. Additionally, we anticipate few further costs, given that surplus of electronics and hardware were purchased, in case of failures of other components, so we anticipate not needing to buy more components. The main further costs will be PCB design (for which we are sponsored), and manufacturing costs. The manufacturing costs as below, are in fact very low, given that the material costs of ABS and PLA (the two materials used so far) are very low, and that we have access to a couple of 3D printers at school.

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| --- | --- | --- |
| Section | Expected Cost / Value | Costs to date |
| Outreach | £30 | £5 |
| Hardware | £26 | £10 |
| Electronics Components | £400 | £300 |
| PCB Manufacturing | £0 | £0 |
| TOTAL | £456 | £315 |

*For a more detailed breakdown of costs, please see Figure*

However, despite the costs being on the edge of the acceptable limits of the CanSat cost per unit, it must be acknowledged that this includes a number of spares for each component, in fact, we expect the cost to reproduce our CanSat to be much lower:

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| --- | --- |
| Item | Cost |
| Electronics Components | £290 |
| PCB Manufacture | £50 |
| Hardware | £30 |
| TOTAL | £400 |

