Engineer: Gregory Busillo

Future Budget Analysis

In order for future groups to finish this project, in the worst case, a total of 5000 dollars should be allocated. This is based on the following purchases and failures:

1. 4 motors are needed; purchasing 6 would be a good choice. Based on purchasing motors from Cornwall Model Boats this would cost 216.36 dollars
2. Extra parts for the motors will have to be purchased, such as mounts and cables. These parts were estimated to cost 200 dollars
3. 1 Emotion Edge Kayak was researched and deemed a good boat for this project. This costs 400 dollars
4. Based on expensive boat batteries, the cost for batteries could be up to 624 dollars
5. Water proofing methods, such as water proof transducers, materials, and pelican cases, are estimated to cost up to 600 dollars
6. Based on the number of parts we had to replace this year and how much that cost, we predict future groups spending about 450 on replacing parts

This total comes up to 2490.36 dollars. If for some reason the system we built this year were to completely fail and have to be replace the total will be 2490.36 plus what we paid this year. This will bring the total to 4943.87 dollars or 5000 dollars rounded up. Keep in mind this total is based on worse case scenarios for each part and this year’s system failing.