Drone Thrust Lab

In this lab we are trying to determine each thrust of the different motors we are looking for which motor is the strongest and also we are trying to find a ratio higher than two to one. We need a higher ratio to be able to lift the drone and possible do a little more. We are doing this lab so we know how much power we exactly have and how we can build or design our drone. Knowing the exact ratio will allow us to be able to know exactly what type of drone we can have.

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| --- | --- | --- | --- | --- |
|  | test 1 | test 2 | test 3 | Avg. |
| motor 1 | 855g | 820g | 823g | 832g |

A picture containing person

Description automatically generatedA picture containing cluttered

Description automatically generatedA picture containing ground, red

Description automatically generated

What we learned with this lab is that the motor is a lot stronger than we thought. Some connections were loose, and we fixed it and it started right up. We had to duct tape it to the scale for it to be still and get a good proper reading. It was nice and sturdy and fun to start the motor. Also, Donald taught everyone how to solder and connect everything.

For this lab we all contributed. Donald designed all our parts using solid works. Karter had put together all the different parts. Isaiah did all of our research to determine which way we are going to test the motors. Devon wrote down all the data and typed the word doc.