Project Timeline

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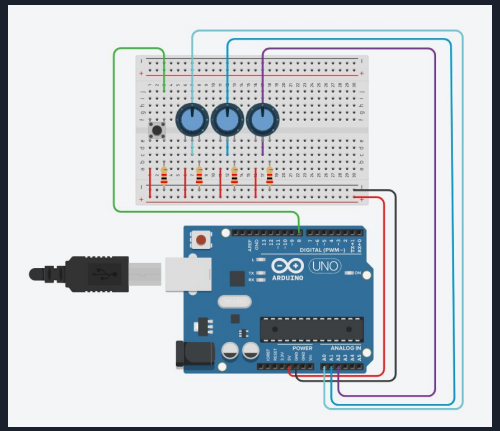
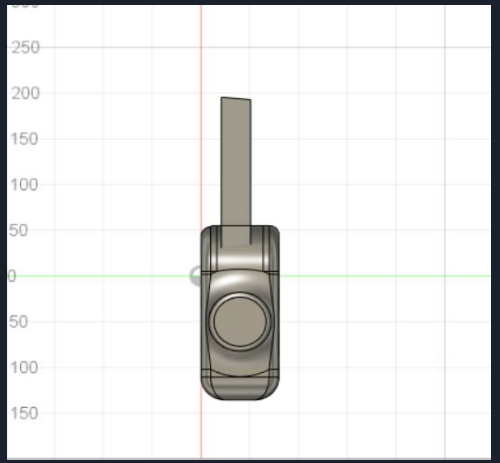
First Iteration

- A very rough idea on how we want the project to look like
- Not considering the components needed
- Was made before we brought and measured our components





Paper Prototype

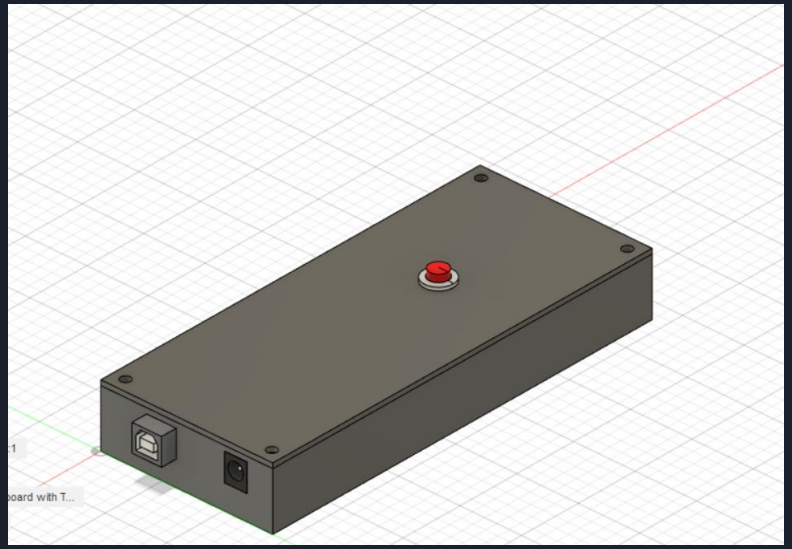
-Component measurements are put into consideration

-Went for a wii remote format alongside only having a button

-Everything including the arduino is on top of the breadboard

First Physical Iteration

- Based on the paper prototype
- Measurements are the same as the paper prototype which lead to the components being unable to fit in due to not considering the thickness to consideration
- The lid has pegs that can be inserted into the holes of the pillars located at the corners of the body
- The holes for the arduino ports were too small
- The controller is too sharp
- The controller is overall too thin
- The pegs are too thin



Second Physical Iteration

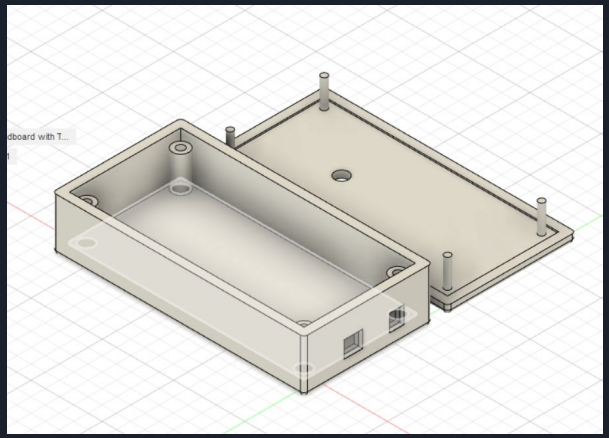
-A thicker and more stable version of the first

-Took much longer to print, which we found to be problematic

-The holes are big enough for the arduino ports to fit in

-Edges are beveled

-It’s too high for the thumb to reach the button



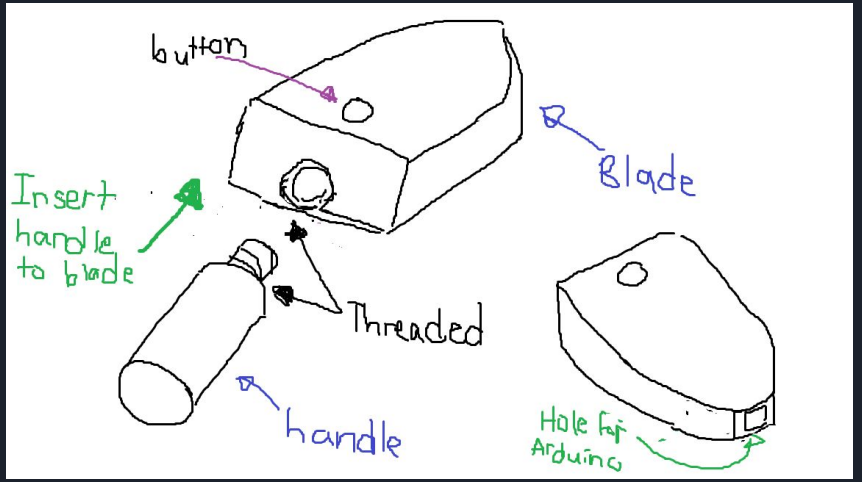
Sword Idea

-We decided to use a smaller breadboard and decided to make the design to be more sword-like

-There is now a separate handle

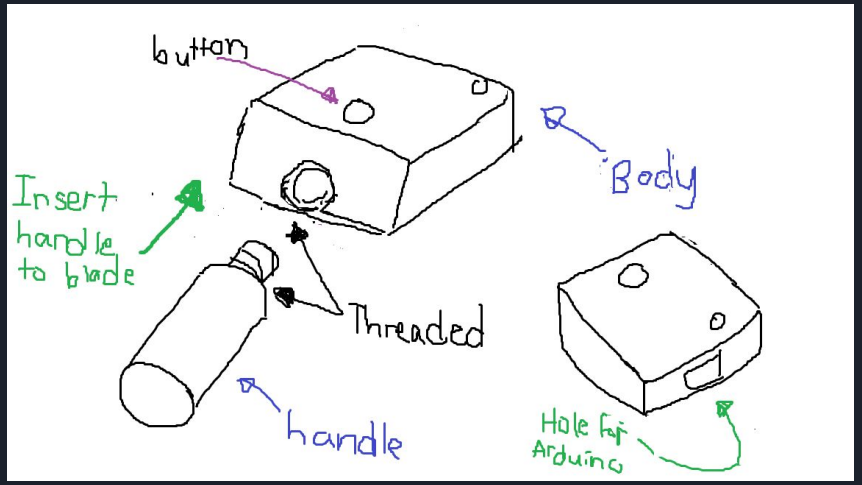
-Button is now placed at the lower part of the body instead of the upper part in the previous iteration

-Thought of using threading to screw handle in to the body



Hammer Idea

- Same as the sword idea but the body is more rectangular
- Considered that we're going to use two breadboards and a hammer body is perfect for that
- Considered adding holes for the LEDs that indicate certains activities happening



Latest Version

- Based on the previous hammer idea
- Instead of a thread, it's a hole located on one of the sides of the hammer where the handle can be glued in
- It's less thick than the 2nd physical iteration but thicker than the 1st physical iteration
- There's two holes for the LEDs light
- The lid has a section where it isn't as thick so that it's easier for the thumb to reach to button
- The body needs to be higher to accommodate the wires
- Magnets are used instead of inserting the pegs to the body to attach the lid to the body