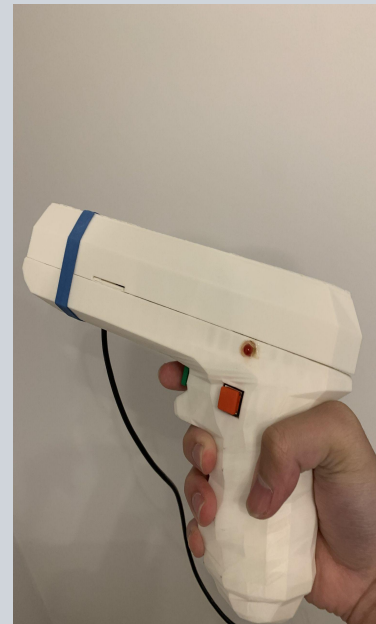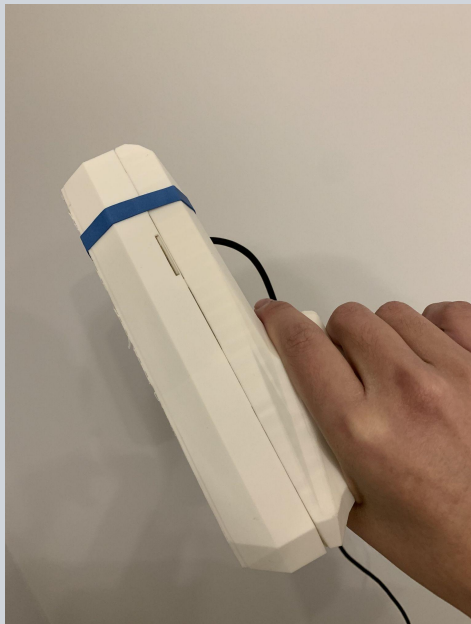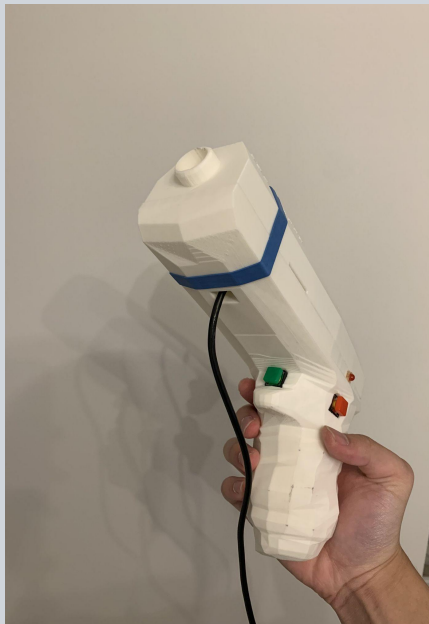# PC Gun Controller

(Final Prototype)

Alexander Phillips & Ethan Zafra

SL

Current Prototype

Our Controller: Changes Made

❖ 3D printed parts in the lab
❖ Widened frame to account for micro:bit and buttons
❖ Removed function for reload button, switched to reload action
❖ LED is now triggered when out of ammo

Takeaways:

❖ Gyroscope isn't reliable
❖ LED isn't as bright as we wanted it to be
❖ Microbit needs the adapter.

What did we learn?

What would we do differently?

❖ Getting a prototype ready for testing early on can help refine it before you become too committed.

❖ Find an smaller, and better alternative to the microbit.
  ➢ Microbit is limited to Pitch & Roll and uses compass for a substitute for Yaw
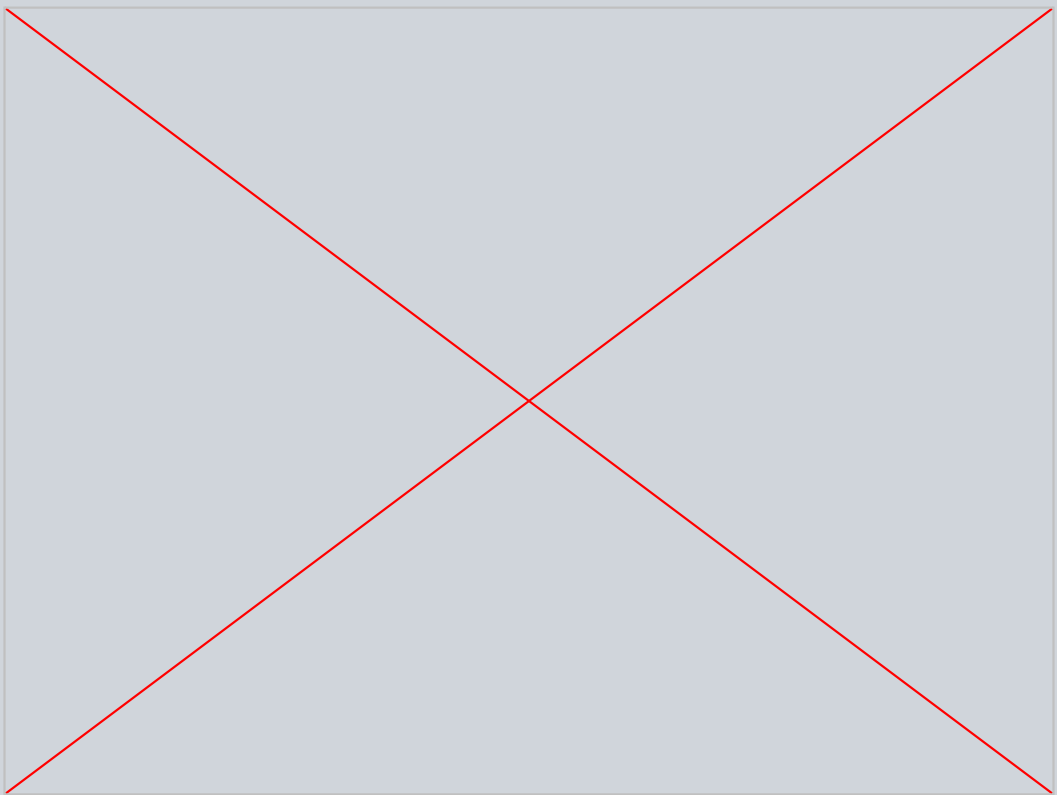 ➢ Also has too much noise which causes shaking
❖ Allow for more input, have calibration button

DEMO

Video of Prototype