

I designed two stages of the boss. First one is simpler to make

Choose wisely!

Firstly you need to print all the parts. Parts are designed to be easy printable (don't know if it is possible while talking about spheres). You can easily print everything in PLA on low end printer like ender 3. Minimal supports are needed.

More info in the file: Instructions_how_to_print.pdf

If you have all the parts printed:

- Glue the eye parts together
- Glue servo_mount1 to the head_strap
- Cut the connectors of the servo wires
- Insert the servo to the servo_mount1 and using included screws screw to it servo_mount2
- Insert second servo
- Connect servo2 to the eye_mount_to_servo
- Use small filament segment to secure joint
- Glue eye to the eye_mount_to_servo

- If you are making second version insert Led to the eye and add two other servos to the mounts on the sides. Screw to them servo_antenna_mount and press-fit antennas (Instructions how to make them can be found in: 5G_antennas folder)

- Now extend all the wires and connect everything (like In wiring diagram)

- Keep in mind that servos should be set to 90 degrees position while assembly or you will need to correct it later

- Add the servoEasing library to the arduinoIDE

Always connect eye to power bank first and then to the computer because without power bank servos will try to suck too much power from the Arduino board and may burn it

- And now you can upload the code.

While finishing everything I decided to add more details by painting veins on the eye, using some acrylic paint (red marker might be good enough)

Its totally optional but looks cool and is easy to do.

And you have finished it, now you can show it to your friends and look even more nerdy!

Satisfaction guaranteed

If you have some questions don't hesitate to contact me

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