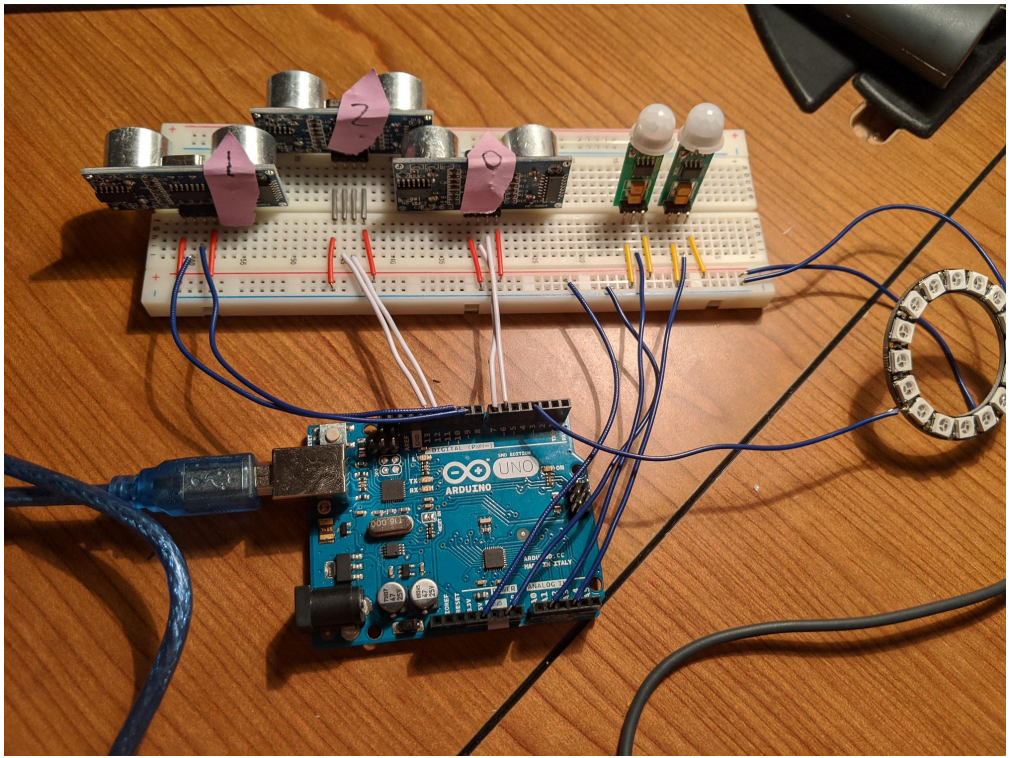
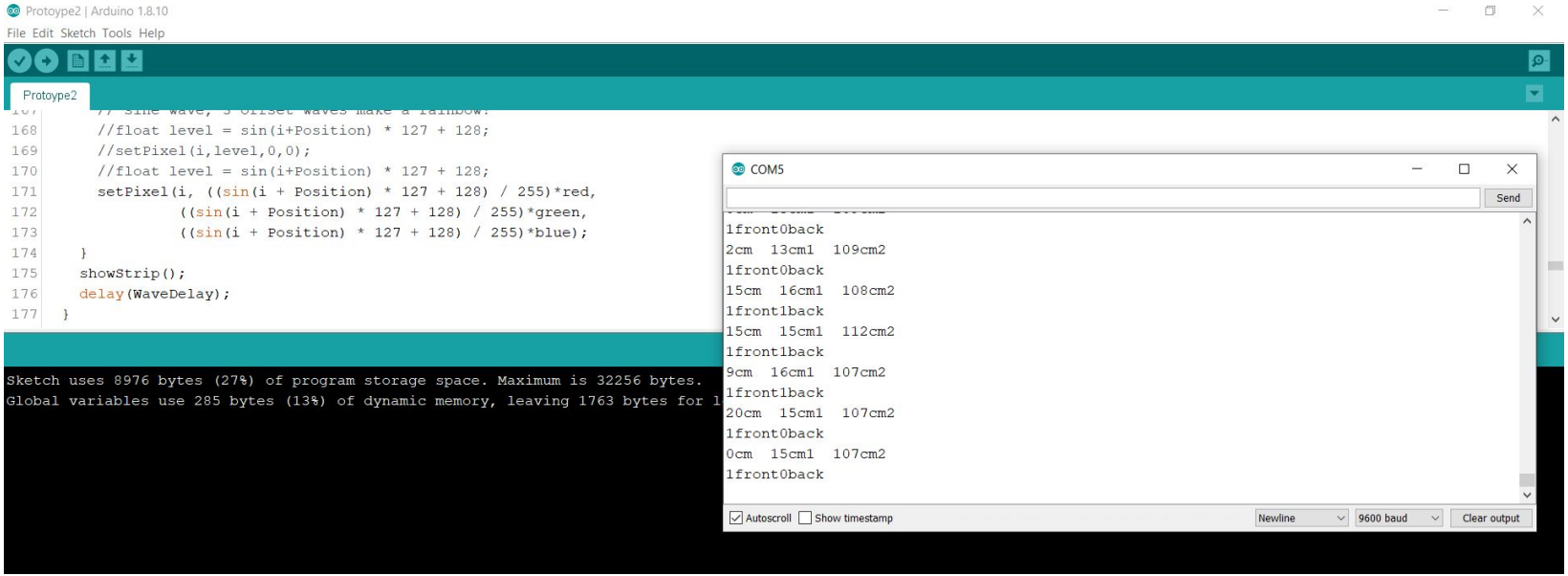
Basic Circuit



Original planned circuit with 3 ultrasound proximity sensors, 2 PIR sensors and neopixel indicator.

Serial Monitor Displaying Sensor Readings

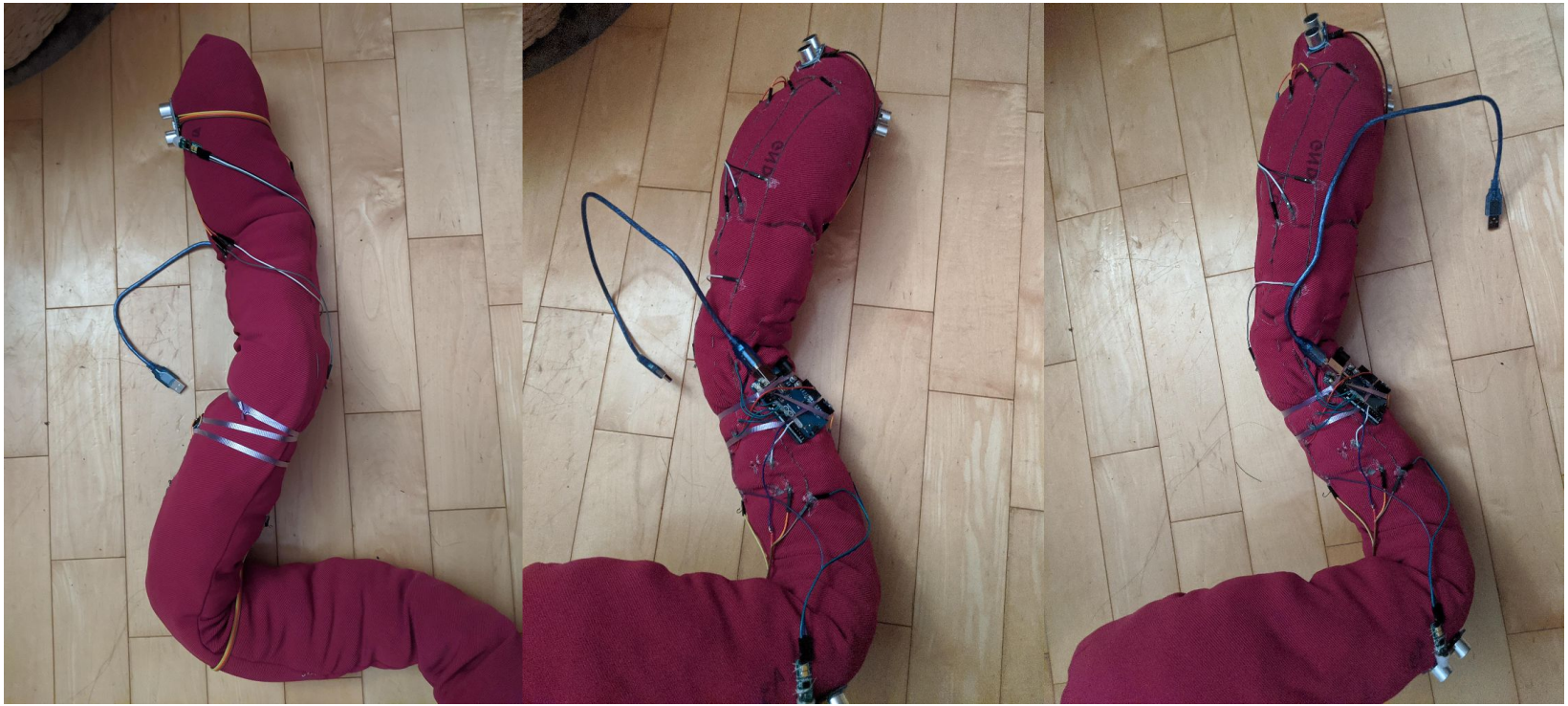


cm being the tail sided (removed) sensor, cm1 front eye and cm2 back eye. “Front” and “back” are PIR sensor values.

Progress

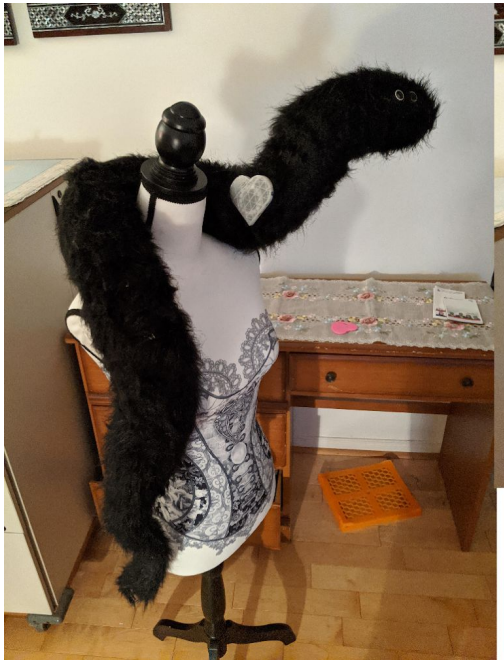
Progress shots of the circuit as it got more complex. Overlapping lines lines were spaced widely and sewn in deep to avoid crossing. Arduino secured to creature with

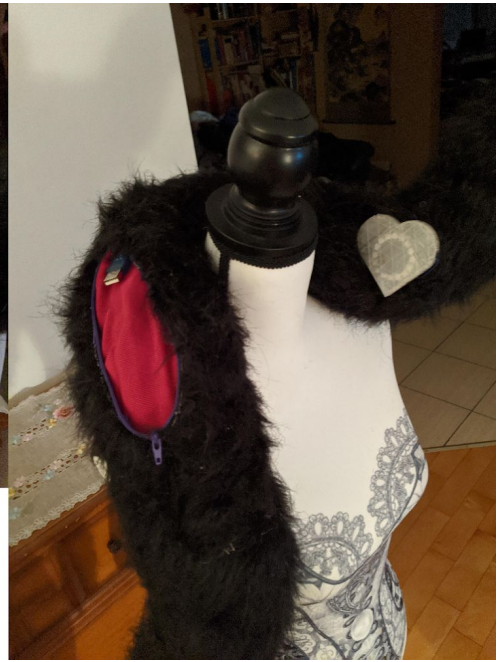
Finished Circuit



Complete circuit, minus neopixel rings which have to be installed last because they are outside the skin.

Finishing Up





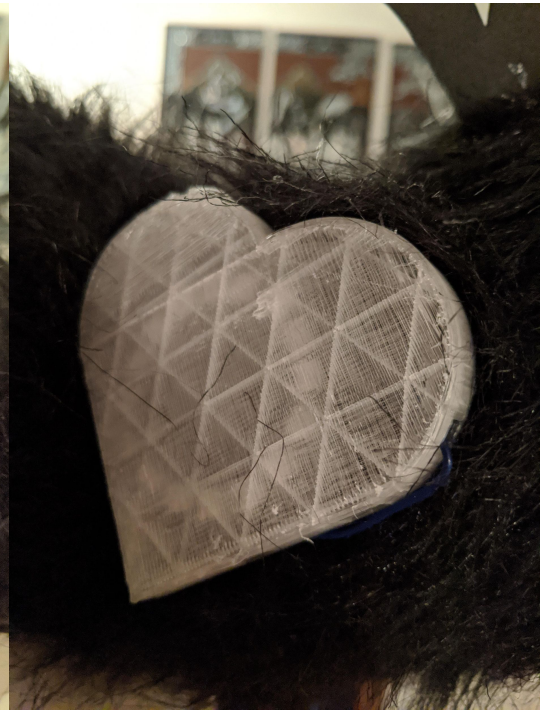
Creature with skin on, “eye”holes for sensors to function. Zipper installed on the tail for removable and rechargeable power source.

Final Artifact

Decorated, finalized creature.

Various Detail Shots

Decorated with the idea of an imaginary friend in mind. Sensor blended into fur. 3D printed heart (not entirely successful) with neopixel ring inside.



Creature in Action P.2

Different camera brightness and colour states. Photos are somewhat difficult to take because of the black body, colour and light balance.

Videos:

Light pattern behaviour on breadboard

https://i.imgur.com/dKz7U0w.mp4

https://i.imgur.com/4TVfp0C.mp4

On artifact

https://i.imgur.com/3pl5u4a.mp4

https://i.imgur.com/Ayjf7tO.mp4

https://i.imgur.com/4YjWjlF.mp4 (Less delay between changes)

Final product

https://i.imgur.com/4j737uN.mp4

https://i.imgur.com/dDNsATf.mp4