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Circuit Explanation

The circuit used is a simple one, allowing it to be easily implemented into a wearable, especially given the prototype phase we are currently in. The circuit is the 5V power source of the Arduino running as the power source for two servo motors and the ultrasonic rangefinder. The signal pins of the servos allow for the amount of movement of the servos to be controlled via the Arduino, and the echo and trigger pin allow to time the interval between sending and receiving a pulse. With a small calculation the distance between the sensor and an object can be calculated and relayed to the parts to react accordingly.