



Figure 1. Numbered wiring diagram (left) and completed button-controlled prototype (right).

The final device includes a (1) power controller (L298N), (2) Arduino UNO (Rev3), (3) breadboard, (4) 12V Linear Actuator (Vevor Linear Actuator 12V), (5) wiring, (6) Ultrasonic Motion Sensor (HC-SR04), an (7) on/off toggle switch, a (8) battery (E-flite 11.1 V LiPo battery), a (9) walker frame, a (10) 3D printed electronic storage container.