Bill Of Materials

Zachary Feuerstein Kevin Hoffman Xiaolin Zheng

3 Ultrasonic Sensors -

digital pin or rail for VCC digital pin or rail for GND PWM pin for Echo PWM pin for Trig

Total of 6 PWM pins rail for VCC rail for GND

3 Push Buttons -

digital pin or rail for VCC digital pin or rail for GND digital pin for input from button

Total of 3 digital input pins rail for VCC rail for GND

4 Light Sensors -

digital pin or rail for VCC digital pin or rail for GND analog pin for input from sensor

Total of 4 analog input pins rail for VCC rail for GND

1 IR Receiver -

digital pin or rail for VCC digital pin or rail for GND digital pin for input from receiver

Total of 1 digital input pin rail for VCC rail for GND

1 IR Transmitter -

digital pin for VCC digital pin or rail for GND

Total of 1 digital output pin rail for GND

2 Motors/H-Bridges -

PWM output pin for enable digital output pin for direction 2 digital input pins for quadrature encoders digital pin or rail for VCC digital pin or rail for GND

Total of 2 PWM pins 6 digital pins rail for VCC rail for GND

Totals -

11 digital pins

8 PWM pins

4 analog pins

1 3.3V rail for VCC

1 5V rail for VCC

1 GND rail