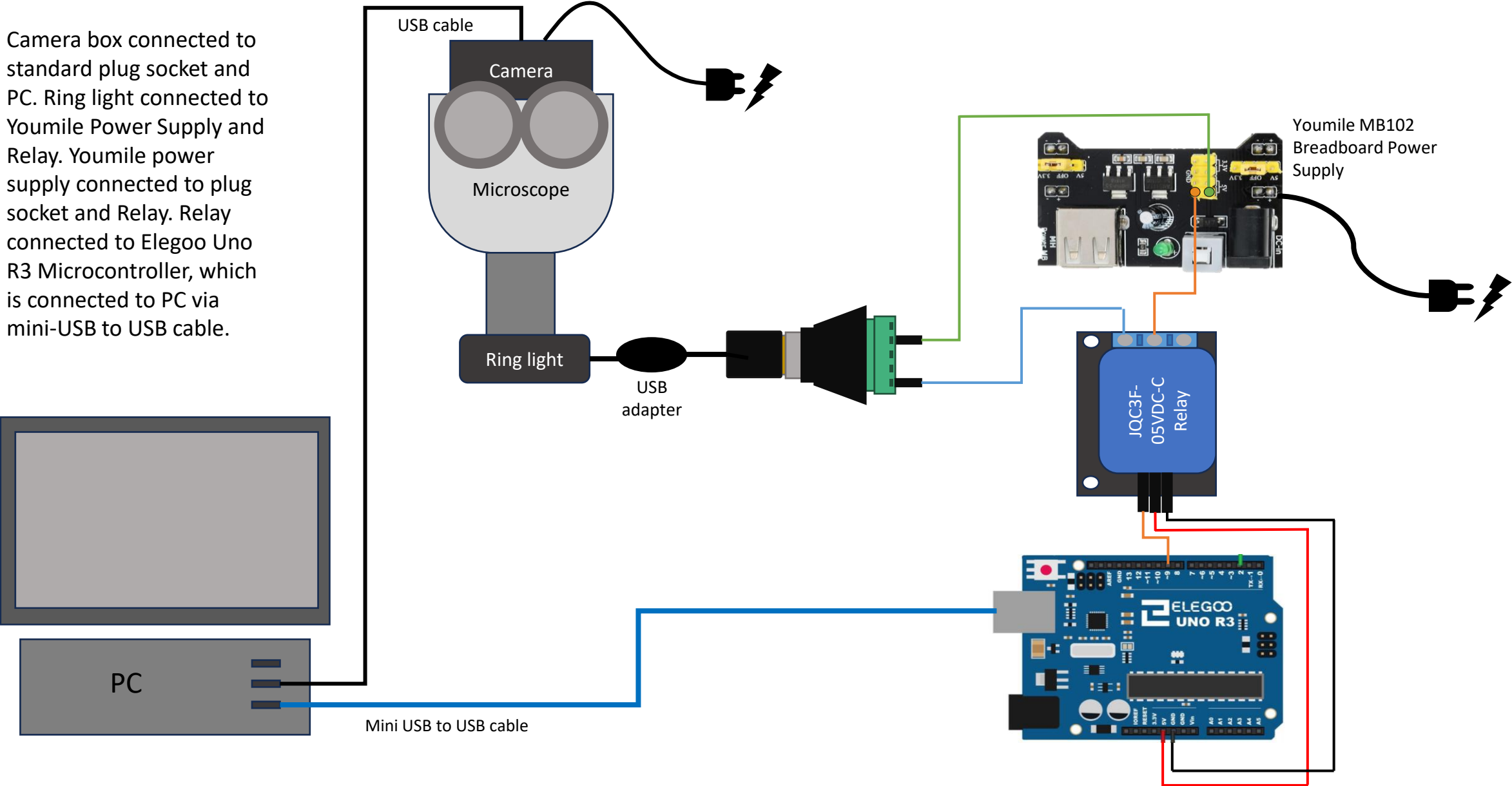# 1. Camera And Microcontroller Circuit

Camera box connected to standard plug socket and PC. Ring light connected to Youmile Power Supply and Relay. Youmile power supply connected to plug socket and Relay. Relay connected to Elegoo Uno R3 Microcontroller, which is connected to PC via mini-USB to USB cable.

USB cable

Camera

Microscope

Ring light

USB adapter

Youmile MB102 Breadboard Power Supply

JQC3F-05VDC-C Relay

ELEGOO UNO R3

PC

Mini USB to USB cable

2. Gantry Motors, Power Supply and Accessories

X Axis Driver

Y Axis Driver

Control Joystick

PC

Emergency Stop

Ethernet Cable

Steppermotor Driver Module HC

(1) (2) (1)

0   2   0

Embedded Control

48V Power Supply Block

Both X and Y axis drivers (found perpendicular to each other on the upper left corner of the gantry) are connected to the Steppermotor Module. The Embedded Control module is connected to the Control Joystick and the PC via a USB cable. The 48V Power Supply block connected to an Emergency Stop button. The grey electric box is powered by a standard plug socket. The wiring connections between the components inside should already be set up for you, but if they aren't or you need more support please let me know.