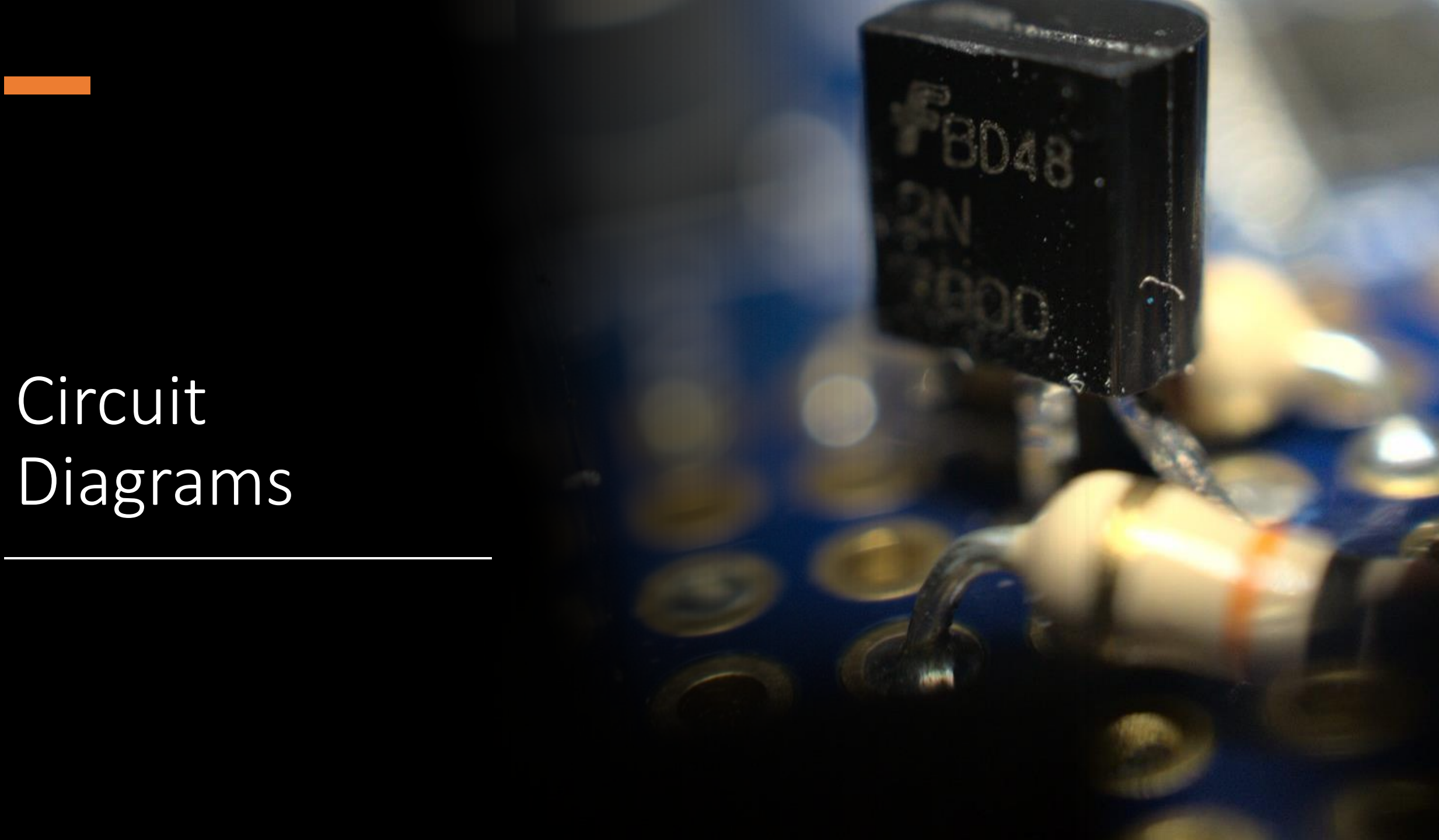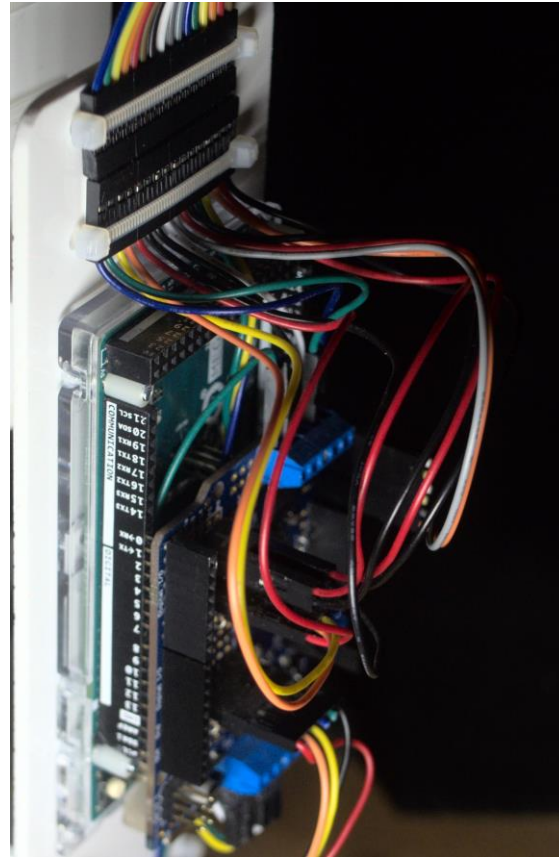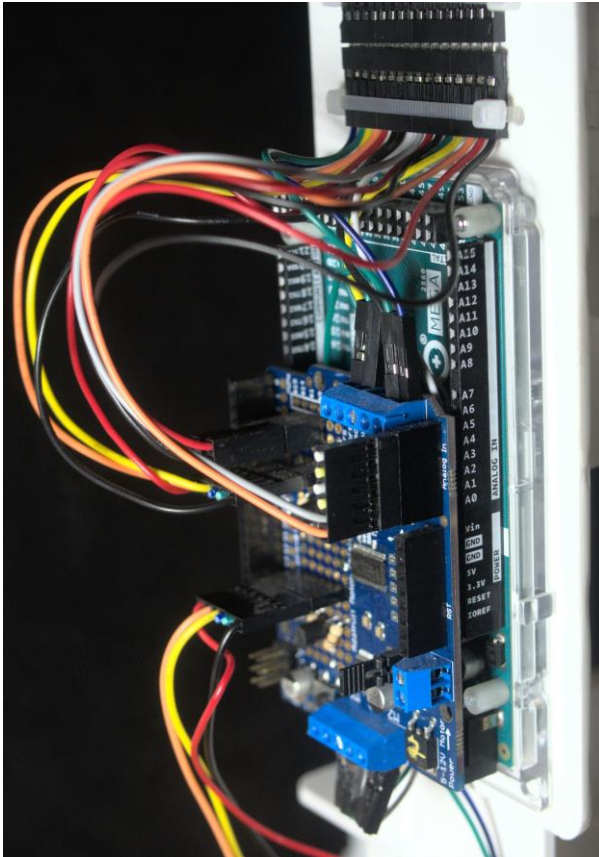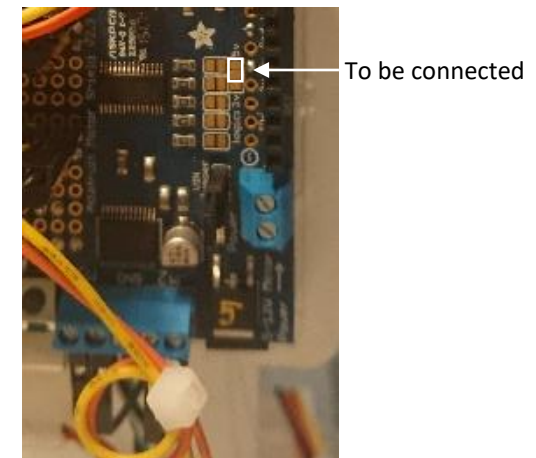# Circuit
Diagrams

Notes

- The AdaFruit Motor Shield board is plugged in directly to the Arduino Mega board from the 0 → RX pin to the SCL pin on one side, and from the A5 pin to IORef pin on the other.
- On the Motor Shield "logic" contact pads, the middle and the 5V logic pads must be soldered or connected to one another.
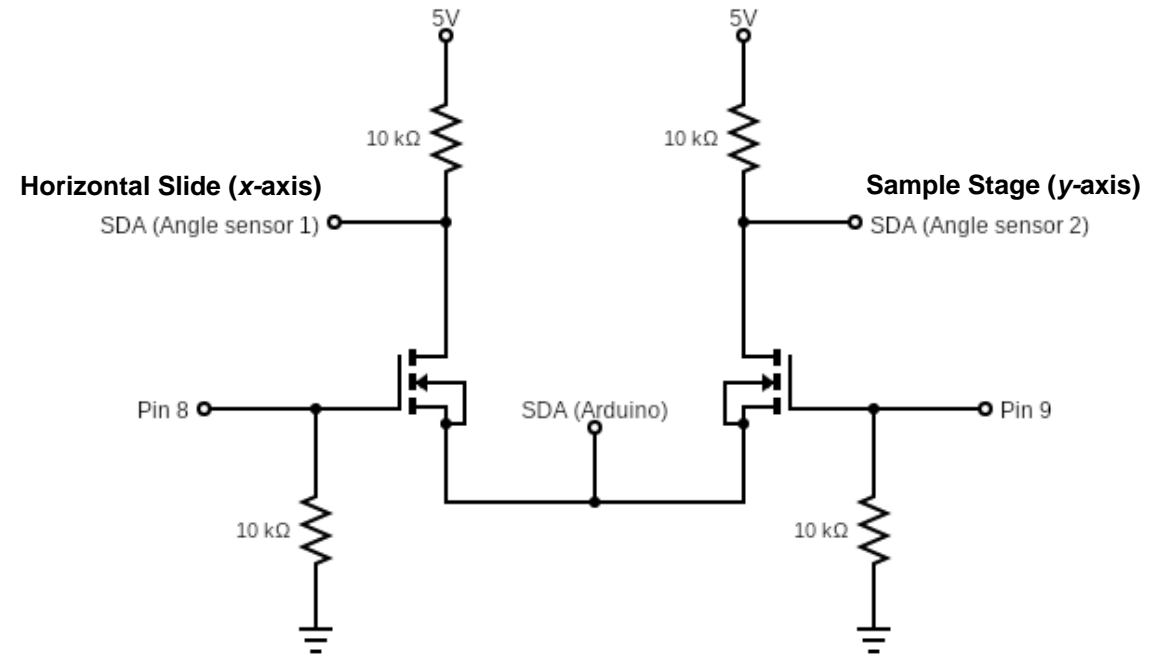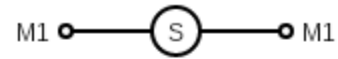

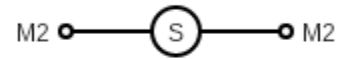To be connected

Circuit Diagrams: Sensors

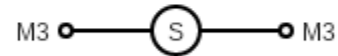**Potentiometer**

Magnetic Angle Sensors

Circuit Diagrams: Motors

Pipette Plunger Motor

M1 o———(S)———o M1

Pipette Slide Motor (z-axis)

M2 o———(S)———o M2

Horizontal Slide Motor (*x*-axis)

M3 o———(S)———o M3

Stage Slide Motor (y-axis)

M4 o———(S)———o M4