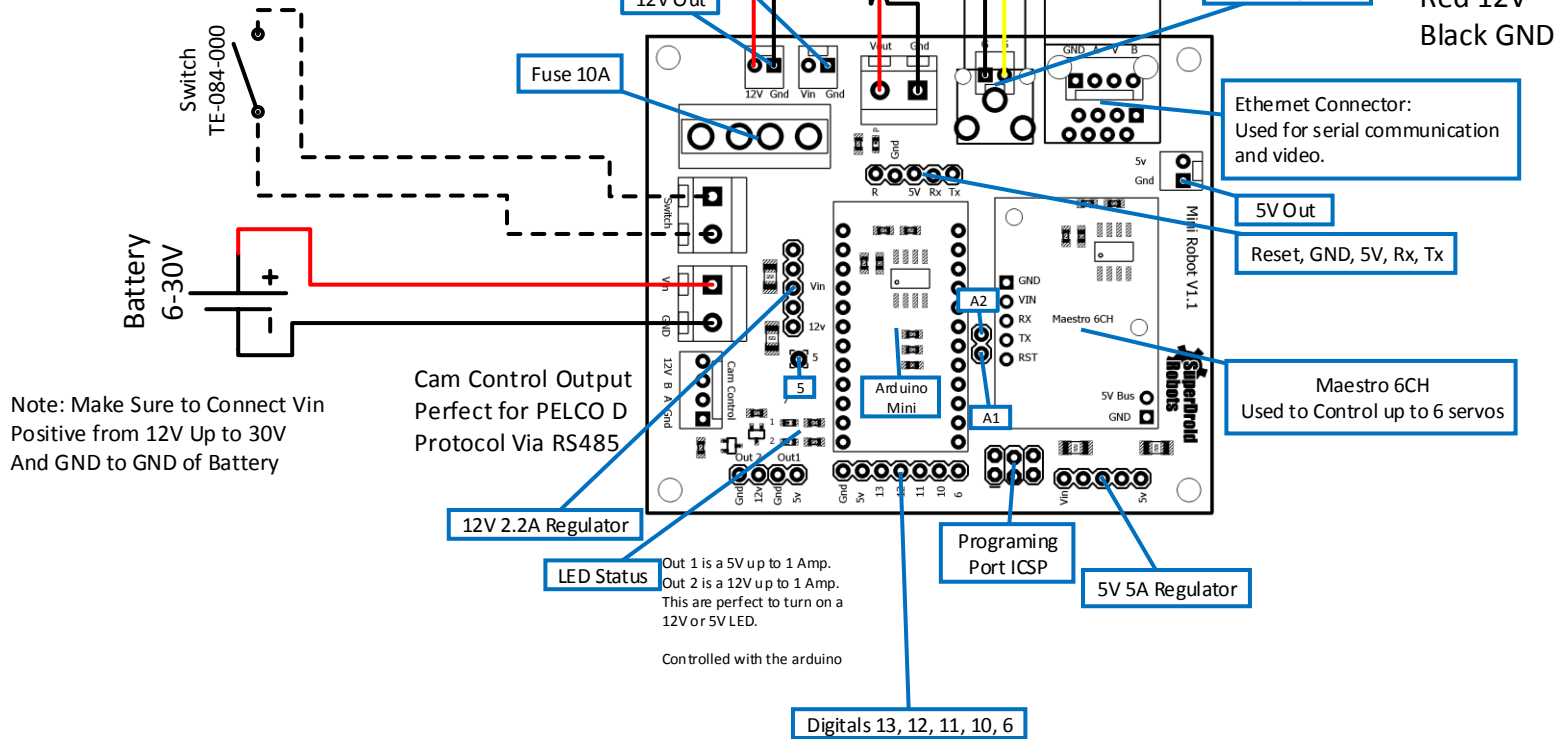


To control a sabertooth you can use packetized serial or RC mode and use the maestro to drive it. If using Packetized serial you can use software serial in any of the not used pins

Switch should be capable of handling the size of the fuse or more



Note: Make Sure to Connect Vin Positive from 12V Up to 30V And GND to GND of Battery

Cam Control Output Perfect for PELCO D Protocol Via RS485

LED Status Out 1 is a 5V up to 1 Amp. Out 2 is a 12V up to 1 Amp. This are perfect to turn on a 12V or 5V LED. Controlled with the arduino

Digitals 13, 12, 11, 10, 6

Video Signal
Yellow Video
Black GND

Camera
Red 12V
Black GND

Ethernet Connector:
Used for serial communication
and video.

5V Out
Reset, GND, 5V, Rx, Tx

Maestro 6CH
Used to Control up to 6 servos

| Arduino Pin Out Internal Connections | |
|--------------------------------------|------------------------------------|
| Pin | Use |
| 0 | Data TX to remote |
| 1 | Data RX From remote |
| 2 | PTZ Rs485 Enable |
| 3 | Software Serial to control Maestro |
| 4 | Software serial PTZ Rs485 Tx |
| 5 | 5V Out 1 |
| 6 | Not used |
| 7 | 12V Out 2 |
| 8 | Status Led 1 |
| 9 | Status Led 2 |
| 10 | Not used |
| 11 | Not used |
| 12 | Not used |
| 13 | Not used |
| A0 | Battery Monitor(Vin) |
| A1 | Not used |
| A2 | Not used |
| A3 | To remote Rs485 Enable |

| Arduino Pin Out Internal Connections | |
|--------------------------------------|------------------------|
| Pin | Use |
| 0 | Data TX to robot |
| 1 | Data RX From robot |
| 2 | To remote Rs485 Enable |
| 3 | Zoom_In |
| 4 | Zoom_Out |
| 5 | Focus Near |
| 6 | Focus Far |
| 7 | Select Up |
| 8 | Select Down |
| 9 | Light |
| 10 | Status Led 1 |
| 11 | Status Led 2 |
| 12 | Not used |
| 13 | Not used |
| A0 | Tilt |
| A1 | Pan |
| A2 | Turn |
| A3 | Drive |

