Arduino 1 Tasks

* Control 4 Servos (pwm)
* Have communication to Pixhawk through mavlink
* Input push button

Arduino 2 Tasks

* Internal temperature sensor
* External temperature/humidity/pressure sensor
* Accelerometer?
* Control cooling fans
* Log data to flash chip
* Send data via LORA

Power Regulation Board

* 4 Battery inputs (XT60s)
* One output
* NEED TO MAKE SURE THIS IS ABLE TO HANDLE THE CURRENT

Chute release mechanism

-?????

Pick out our parts

-2 Arduinos (build)

- AtMega328P-AU

- FTDI Fr232-RL??

-Clock (crystal) (16MHz)

- USB ports (micro-usb)

-bunch of filtering capacitors (varying size)

- Voltage regulator….down to 5v

- diodes … Make sure we don’t fry our pc’s when connected

- Pin headers/connectors… to connect to external sensors and boards

-LEDs for data transfer/status of Arduino in general

- Reset button (needs to tie to FTDI)

-possibility of several regulators for servos….dont know the current draw on each….

* Pressure/humidity/temperature sensors (BME280)
* Flash chip…..data rates? (size of flash chip?)
* MOSFETS for controlling fans
* LORA outputs

Power Draw (mAh)