UAV Procedures

# Normal Procedures

## Before Startup

* Confirm all batteries charged
* No physical damage to airframe, engine, propeller or avionics
* All electronics present and connected
* All hatches closed and secured on aircraft
* Area and runway clear of unnecessary personnel and debris
* Ground station present and manned
* Joe set up and IR lamp on

## Startup

* Avionics power switch ON
* Verify:
	+ All servos and flight control surfaces responsive
	+ APM(s) running
	+ Pandaboard running
	+ RC radio link working
* Ground station electronics ON
* Verify:
	+ Ground station software running and stable
	+ Telemetry and video links stable and transmitting
* Confirm GPS Lock
* Confirm Altitude lock
* Ensure flight mode MANUAL

## Taxi to Runway

* Motor power ON
* Confirm throttle responsive
* TAXI to runway
* Confirm IMU gives the correct orientation
* Confirm runway clear

## Takeoff

* TAKEOFF
* Monitor Ground Station for any errors or warnings

## Cruise

* Switch APM to AUTO mode
* Monitor ground station to ensure altitude and waypoints are reached
* Confirm Image capture from cameras
* Monitor battery usage

## Pre-landing

* Ensure runway is clear
* Switch APM to RTL mode

## Landing

* Switch APM to MANUAL mode
* Glide the plane onto the runway
* LAND
* Clear the runway to parking area
* Set throttle to 0

## Shutdown

* Motor power OFF
* Ensure any necessary data is transferred to the ground station
* Avionics power OFF