

# VTOL Flight Checklist

## Preflight Checks

### VTOL

- ☐ Ensure VTOL is balanced around center of gravity, both in terms of pitch and roll
- ☐ Check voltage on batteries to ensure a full flight can be completed
- ☐ Lift the VTOL and test that flight surfaces move correctly
  - ☐ Left aileron moves down and right aileron moves up when left wing is tilted down, The opposite should happen when the right wing is tilted down
  - ☐ Elevators move up when nose is tilted down, and elevators move down when nose is tilted up
  - ☐ Rudder moves right when VTOL yaws left and rudder moves left when VTOL yaws right

### Base Station

- ☐ Calibrate voltage on Flight Controller
- ☐ Digital transmission is at or above 90
- ☐ Airspeed sensors shows 0-3 m/s when stationary
- ☐ GPS shows greater than 20 satellites
- ☐ Flight Controller changes to Return to Launch when RC signal is lost

### Onboard Computer

- ☐ Check values from each sensor to ensure valid readings are being received

## Postflight Checks

### VTOL

- ☐ Check if motors are hot upon landing
- ☐ Check if batteries are hot upon landing