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| --- | --- | --- |
| Name: |  | Flight Testing Checklist |
| Date: | YYYY – MM - DD |
| Project: |  |

# Goal

What are you trying to test? (Testing automatic trajectory generation scripts, etc.)

# State Machine Outline

What are the steps in your state machine? (Wait for arm, wait for 1 m alt, wait for GUIDED, etc.)

# Expected Behaviour

## Nominal Behaviour

What is the expected behaviour of the vehicle? (Vehicle will face east and conduct vertical figure 8 loops, vehicle will face east and do random trajectory, vehicle will fly 10 m circle facing inwards, etc.)

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| --- | --- |
| Max Expected Velocity: m/s, Angle: deg, Altitude: m | |
| ATTITUDE / ACCELERATION / VELOCITY / POSITION | Circle which of these quantities you are commanding the vehicle to track |

## End Behaviour

What is the expected behaviour once your script has concluded? (Hover, land, etc.)

## Abort Criteria

What should the pilot look for to abort the mission? (Heading change, loss of altitude, etc.)

# Special Requirements

Are there any special requirements such as changes to the vehicle settings that are required?

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| --- | --- |
| CLIMB RATE / RAW THRUST | Circle of you command a climb rate (0: full descend, 0.5: hover, 1: full climb) or a raw thrust (0: no thrust, 1: full thrust). |

# Flight Test Steps

What are the steps in getting your mission flown? Include when to start scripts, logging, pilot actions (take off, climb to alt, switch to guided, autonomous script (auto or SE-started), landing, etc). Person: PIC (Pilot), SE (Software Engineer)

|  |  |
| --- | --- |
| Person | Task |

# Checks

Checks of the software that need to be passed before flying on hardware

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| --- | --- | --- |
| Passed | Platform | Task |
|  | SITL | Nominal behaviour |
|  | SITL | Take off, move to a new location, land, disarm, arm, and then nominal routine |
|  | SITL | (If in-air code restarts requested) Nominal behaviour, stop mid-mission, restart, and demonstrate full nominal behaviour (start to finish) |
|  | Hardware | Code interfaces (prints results, etc.) as expected (props off, vehicle disarmed) when running on hardware |
|  |  |  |
|  |  |  |

# Equipment

What equipment do you require in addition to the UAV. Circle as required, list anything else.

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| --- | --- | --- | --- | --- | --- |
| ROUTER | WIFI | ETHERNET | POWER | MONITOR |  |

# Notes

Any additional notes.