

# P1 UAV Controls Guidelines

## **Purpose**

The purpose of this document is to document and plan the future implementations needed once the hardware is connected and the electronics system is in place.

## **Component Details**

The purpose of *UAV* is to autonomously navigate through a set of given waypoints.

To meet the [overall & subsystem requirements](#), the things needs to be done are:

1. Install softwares on Odroid
2. Test Rocket and Bullet on UAV and GCS for communication
3. Test algorithms on hardware through flight tests

## **Timeline**

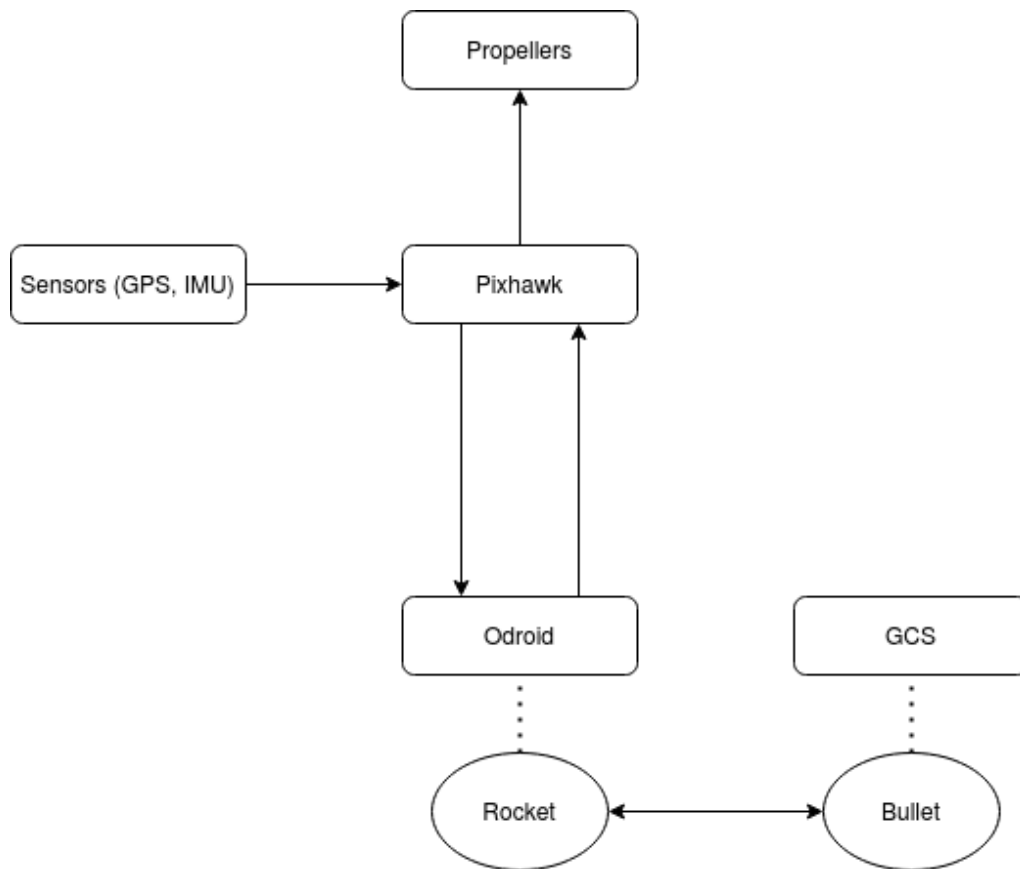
Low Priority

Medium Priority

High Priority

- **Task #1:** Collaborate with UAV master lab, Mr. Bryan Brown for hardware assembly guidance, flight tests.
- **Task #2:** Identify optimal algorithms for specific use case, intended to test A\* for deliberative planning (global, static obstacles) and RRT for reactive planning (local, dynamic obstacles)

## **Additional Details and Notes**



## **Supporting Documentation (For Reference)**

[Concept of Operations](#)  
[Hardware Layout](#)  
[Allocation Requirements](#)  
[SDR - Internal Version](#)  
[Design Logic](#)