Icon

Description automatically generated

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#### Project Dragonfly

Drone Control System

Sequence of Operation

## Global Controls

The Drone (Dragonfly) consists of a MPU6050 (Inertial Measurement Unit). An Arduino Nano which will be in charge of gathering the data from the MPU6050 and a radio receiver (FS-iA6B) paired to a radio controller (FS-i6S). A Raspberry Pi (RPi) model 3B will be connected to the Arduino Nano via USB (Universal Serial Bus) and will send the RPi a “JSON-like” object containing a unit quaternion, which encodes the spatial orientation, and commands from the receiver.