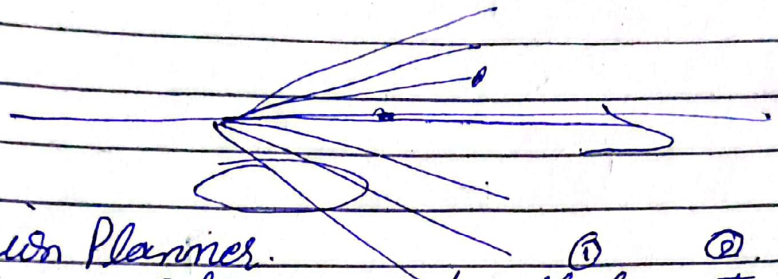
Pixhawk, MP, ArduPilot Build

Pixhawk → Cube, → Fixed Wing
→ Cars
→ any where

Arduplane changed

3DXR.co.uk
Sensors
Radio Gear.



Mission Planner. ① ②
↳ Software used to flash, setup & tune the hardware you use
③ Configure, fly with Radios

APM Planner, QGround Control.
↳ Similar features to Mission Planner
↳ Run on different OS.

Pixhawk → hardware without firmware installed on it.

ArduPilot → is a code that you flash in the Pixhawk.

PX4 → alternate set of firmware flashed when using Qground Control.

GPS, Status → arming
Power Module → Battery Voltage → Power Sockets
RC in ✓ S bus
Buzzer
Radio Telemetry

~~Arduf~~ ArduPilot → Wiki

Multirotor → Power Distributor Unit
Airspeed Sensor
↳ Takeoff, Land, Autonomous
Gimbal

Chap 2.
accelerometer, gyros.
ArduPlane Wiki
FPV.
Download & install Mission Planner.
Right Version of Mission Planner.
Controls & mode Switch
↳ S_a, S_t, S_r, S_e
Input Channel → on RC

TARANIS

Flash Controller
Usb connector
Setup → install firmware → all options
on Vehicles
↳ Platform → apj
Look for heartbeat
↳ erase → firmware

→ Musical Tunes
flashed → not Configured ②
② by using COM → MAVLink Connected
Setup
Nose of Pixhawk, GPS locked

Acc Calibrate → Procedure
Compass Calibration → Revolve around Point

RC In to RC ~~rec~~ Receiver → Power Cable.

Mandatory Hardware.
Radio Calibration with the RC
Max, Min → Thing

Install into a Plane

doesn't matter which Plane
Process is same.

↳ Placement and Correct Positioning (layout) is Key, → assure Plane in facing to the nose and correct GPS placement.

2) Setup the outputs & connecting the "ESC" & servo (no Power On rail so BEC needed)

3) Testing direction of the controls & reversing if necessary in manual & stabilize modes.

4) Using the Servo Output setup to configure the midpoints & travel of the servos.

5) Calibrating level with a slight nose up attitude before first flight.

6) Setting up GPS RTH setting and auto-Trim for easy mandal flying.

GPS on Top ✓
Electronics in the airframe ✓
Purple Cube, Black Cube.
Sensor Redency, Heater for CONST Temp
Power Module ✓
Arrow Pointing Forward. USB cable in & out ✓
Power for Servo comes from Speed Controller
Radio and Servo to be calibrated
Servo Output ✓
Channel functions (Min, Trim, Max)

Re-run Calibration (Reverse)
Radio-on -> Tip Tip

Flight Modes -> Circle, Fly by wire.
Manual.

Level Calibration, Compass.
Fail Safe Criteria.
Full Para list.
[HW 9D] -> hardware lost

Servo-Auto-Trim (1)
ARM it.
Manual.

Channel Forward / Servo contid
during Landing Gear.

Radio Calibration -> RS
changing the Servo Value