

# CSE2040 - Drone Applications, Components and Assembly

## Lab 1 - Drone Components

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**AIM:** To list all the components and their respective quantities required to assemble S500 Drone.

## **PROCEDURE:**

S500 Drone consists of the following main components.

Sr. No.	Name	Quantity
1	Pixhawk 6C Flight Controller ( with Plastic Case)	1
2	Power Management Board	1
3	M8N GPS Module	1
4	SiK Telemetry Radio V3 433/915MHz	1
5	Motors - 2216 KV920	4
6	ESCs - BLHeli S ESC 20A	4
7	1045 Propellers	4
8	Battery - 4S 2000-5000mAh Lipo	1

The drone's frame consists of the following components.

Sr. No.	Name	Quantity
1	Arms	4
2	Landing gear - Legs	4
3	Bottom Plate	1
4	Top Plate	1
5	Carrier – Small plate and two holder pieces – Battery Mount	1 + 2
6	Cylindrical mounts and mounting brackets	2 + 4

The drone also requires the following screws and their respective quantities.

Sr. No.	Name	Quantity
1	M2.5X6	24
2	M2.5X8	8
3	M2.5-p0 45X5	4
4	M3X7	4
5	M3X4	4

**CONCLUSION:** Thus, we have listed all the components required to assemble the S500 Drone.