Brigham Young University

AUVSI Capstone Team (Team 45)

Bill of Materials

ID	Rev.	Date	Description	Author	Checked By
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1 Introduction

This artifact is meant to communicate the spatial layout of components in the plane. Note that only components with significant spacial requirements are included. This includes center of gravity, signal interference, and physical volume. A diagram of the current configuration is included in Fig. 1.

Table 1: Layout of components for ideal CG placement, avoiding signal interference, and practicality.

Item #	X Location (cm)	Item Description	Reason for Location
1	7.5	GPS Antenna	Avoid interference with 5Ghz antenna
2	17.5	Ubiquiti Bullet	CG placement
3	21.5	Battery	CG placement
4	33.5	Camera	Near CG to reduce oscillations during image capture
5	43.5	Flight Controller and Inertial Sense	Inertial Sense should be near the CG
6	43.5	Odroid	Central location is convenient for connecting components
7	52.5	RC Antenna/Receiver	CG placement
8	60.5	UGV	CG placement, bay door design
9	63	5GHz antenna	Avoid interference with GPS antenna
10	68.5	Parachute	Effective deployment with UGV

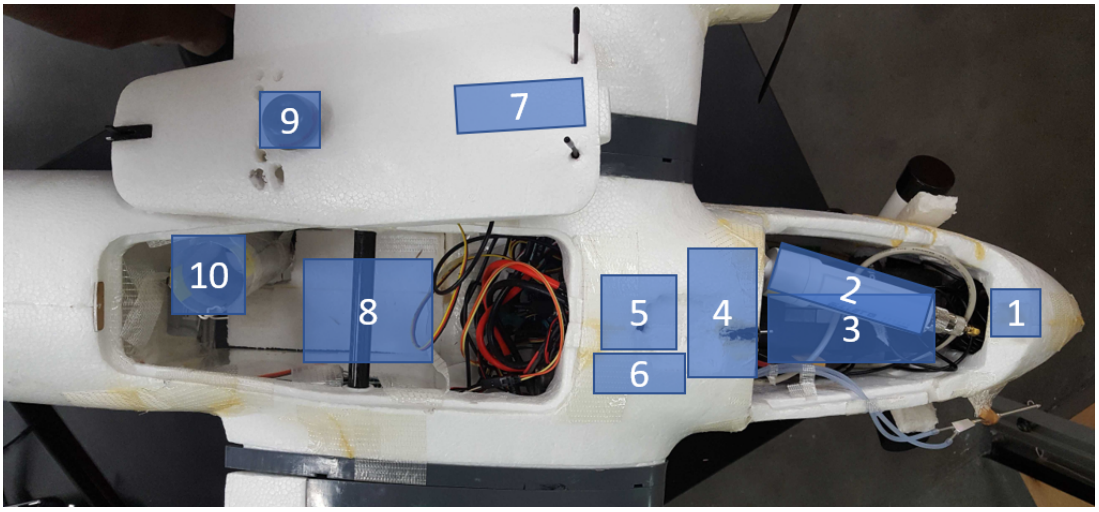

Figure 1: Diagram illustrating component placement.