our client

Figure 11: Final Mount Design

8 Budget and Costs

This project requires many components in order to be successful. The client has provided us with Thumper, Pixhawk Autopilot, and 3DR UBlox GPS + Compass Module so they will not be included in our budget analysis. The resources required have been divided into two categories: Financial and Guidance. Without either resource, this project would not be able to be completed.

8.1 Financial

Table 5 shows the cost of the parts for the ZED and Jetson TX1 system, as well as the total cost of the system. Table 6 shows the cost of the materials needed to build the mount and the total cost of the mount.

Table 5: ZED and Jetson TX1 System Budget

Item	Supplier	Price
ZED Stereo Camera	Stereo Labs	$449.00
Jetson TX1 GPU	NVIDIA	$599.00
Total Cost		$1,048.00

Table 6: Mount Budget

Item	Dimensions	Supplier	Amount	Price
PVC pipe	3.5" outer diameter 3" inner diameter	Home Depot	2 ft.	$5.44
Motor	2.25"x2.17'	Automation Direct	1	$35.50
Aluminum Plate	1ft x 4ft	Materials Depot	1	$75.60
3"x4" PVC reducing coupling	3"x4"	Home Depot	1	$6.57
PVC pipe	4.5" outer diameter 4" inner diameter	Home Depot	2 ft	$6.56
4" PVC Hubcap	4"	Home Depot	1	$7.94
PVC Cement	N/A	Home Depot	1	$4.94
Total Cost:				**$142.55**

8.2 Guidance

Each team member chose one to two advisors as a guide for their respective area of the project. The chosen technical advisors provided great insight and guidance in terms of their specialization. Their contributions are invaluable to this project.