



Project Leader: Team 518

Project: Drone Disabling Device

Date: 8-Feb-19

Project Objective: Protect and secure air space from unmanned flight vehicles. Where the key goals are to detect, neutralize and secure unmanned flight vehicle.

Objectives	Major Tasks	Project Completed By: April 01, 2019												Owner / Priority				
0	1 Order and test CO2 tank on current device	~	~															A
0	2 Test hose line																	A
0	3 Interface cameras alert system with raspberry pi	~	~															A
0	4 Create initial drone detection algorithm																	A
0	5 Order casting nets and size specifications	~	~															A
0	6 Pressure chamber calculations and manufacturing	~	~															A
0	7 3D print CAD models																	A
0	8 Pressure equipment safety test																	A
0	9 Net launch distance test																	A
0	10 3D imaging test of stationary drone																	A
0	11 Test trigger assembly with low pressure																	A

0	12 Optimize speed and accuracy of detection algorithm																	A
0	13 Assemble trigger system, air tank, hose line, and 3D prints																	A B
0	14 Assemble Rifle components																	A B
0	15 Test pressure chamber for leaks and durability																	A
0	16 Combine pressure chamber and designed trigger																	A B
0	17 Implement casting net to device																	A B
0	18 Full assembly of 3D prints																	A B
0	19 Test and optimize net launch																	A
0	20 Test optimize detection system																	A
0	21 Spring Break																	
0	22 Final system testing																	A
0	23 Refine Prototype																	A A A A A

- A Syllabus
- B ABET
- C Sponsors
- D Documentation
- E Lessons Learned
- F

People working on the project: 5

Parts Ordering Full-Scale Development Testing Documentation	Major Tasks	7-Jan-19	14-Jan-19	21-Jan-19	28-Jan-19	4-Feb-19	11-Feb-19	18-Feb-19	25-Feb-19	4-Mar-19	11-Mar-19	18-Mar-19	25-Mar-19	Ryan Cziko	Quentin Lewis	Dylan Macaulay	Trevor Stade	Taylor Stamm
	Target Dates																	
	Objectives																	
	Costs	Project Cost \$0.00 \$1,750.00 Material Cost \$0.00 \$2,000.00 Product Cost \$0.00 \$1,000.00																
Summary & Forecast		We are in the process of ordering parts and our initial testing																

Labels	Budgeted	Expended
Product Cost	\$1,000.00	\$0.00
Material Cost	\$2,000.00	\$0.00
Project Cost	\$1,750.00	\$0.00

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