## NORTHROP GRUMMAN

## **Sponsors**: Tameika Hollis & Stan Zoubek

# **Problem Statement**

Drones with cameras and possible explosives (IEDs) pose a security threat to the public and military safety.

#### Objective

Develop a device to secure specified air space from unmanned flight vehicles.

# **Customer Requirements**

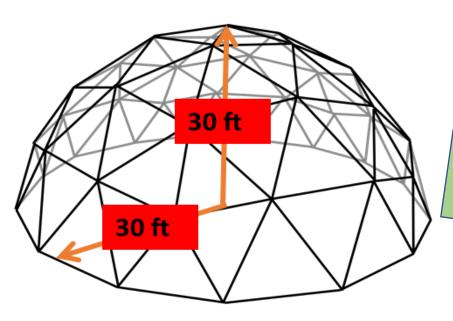
#### **Drone Specs**

Typical household drones



Range

30 ft radius dome



Power

120V (AC) outlet

#### Effectiveness

Minimum: Disable **Bonus: Recover** 

### Operation

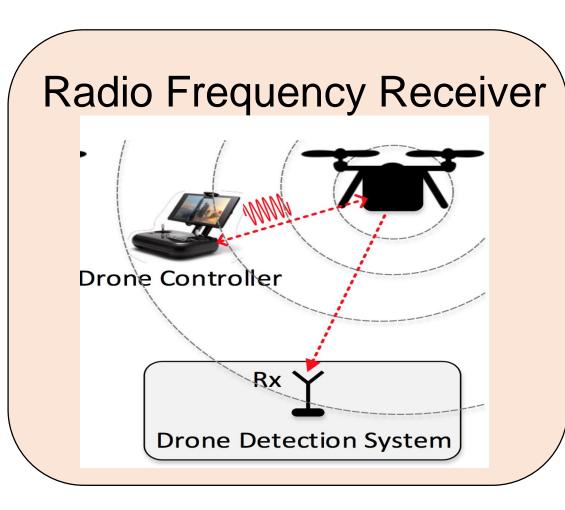
Trained human operator

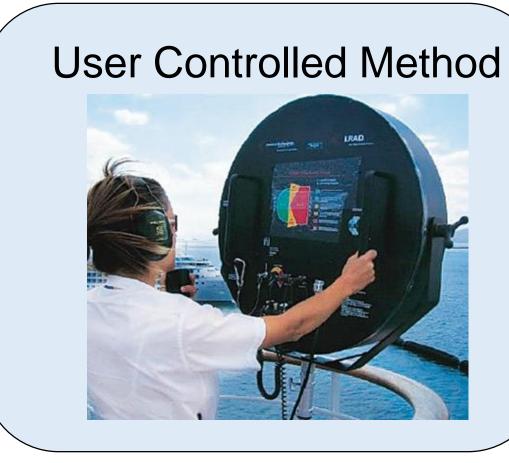
#### Portability

4 hour assembly time

#### Purpose

Preparation for industry





# **Target Catalog**

### **METRIC**

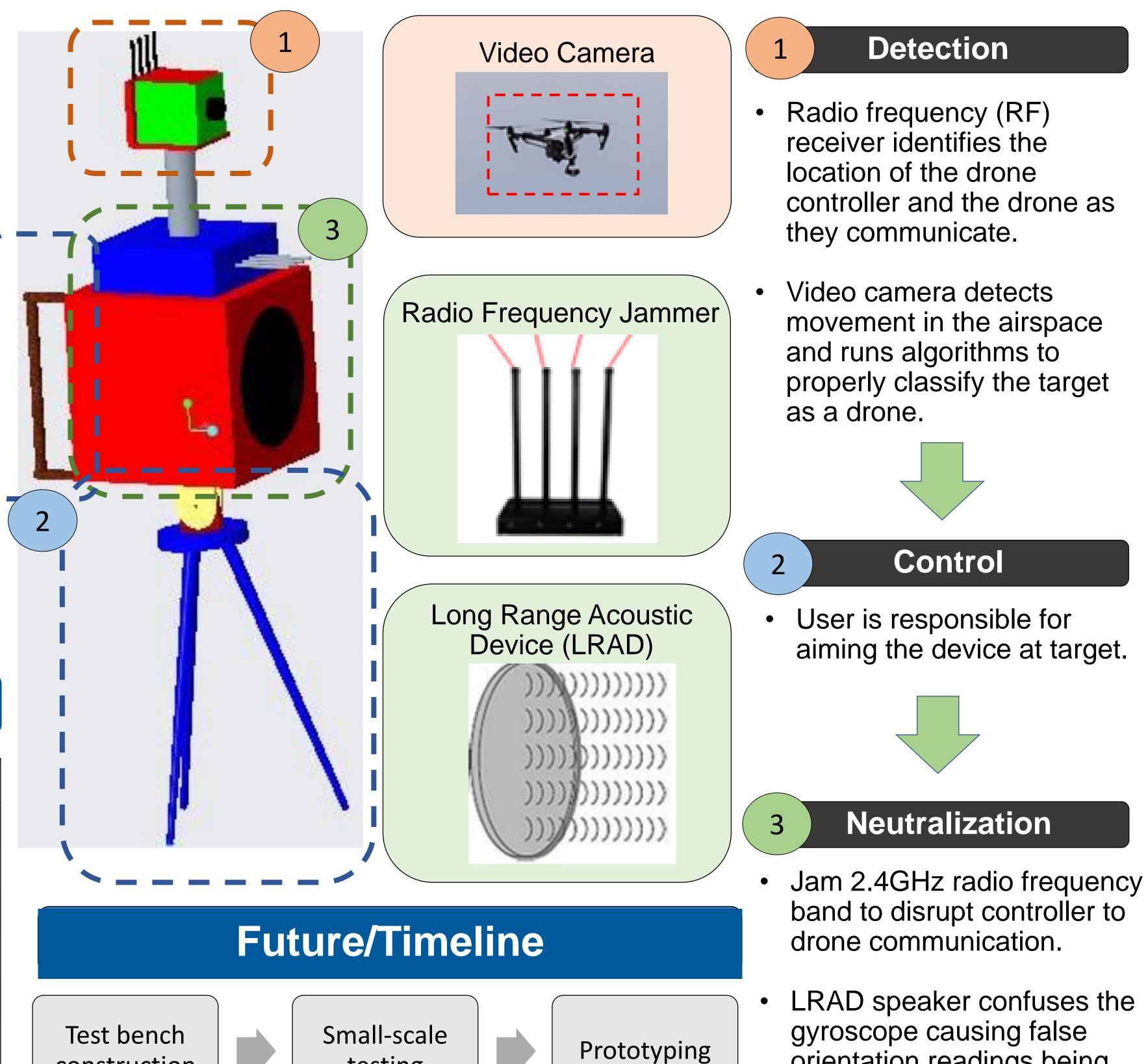
Assembly/Disassembly T Device operation voltag Range of device (dome rad Time to find/lock on to tar Time to neutralize drone Effectiveness Project budget

# Team 13 Drone Disabling Device

**Team Members**: Gregory Boldt, Latarence Butts, Brandon Eiler, Jordan Lane-Palmer, Deshon Purvis, Natalie Villar, Justin Wawrzyniak Advisor: Dr. Camilo Ordonez

# **Selected Design Model**

	TARGET	UNITS	
īme	4	h	
ge	120	V	
dius)	30	ft	
rget	30	S	
ne	5	S	
	90	%	
	5000	USD	



FAMU-FSU COLLEGE OF ENGINEERING DEPARTMENTS OF M.E. & E.C.E

construction

testing







**Professors**: Dr. Shayne McConomy & Dr. Chiang Shih



gyroscope causing false orientation readings being sent to flight controller.