

Who are these guys?

What is engineering?

Why engineers?

What kind of Engineers?

Engineering Exercise

Training

Take Flight!

WHO ARE WE?

- Engineers from General Atomics
- Develop and engineer Unmanned Aerial Vehicles (UAVs)
- UAV, fancy word for Drone





You've seen our drone in movies. Guess the movies?

WHAT IS ENGINEERING?

- Not Science... but you need to know science
- Not Math... but good to have a strong background in math
- Not Technology... but great to understand technologies

Engineering is using skills to make things work

- Applying Skills
 - STEM (Science, Technology, Engineering, Math)
 - Communications and Reading
 - Research and Learning new things
 - Art, People, Business skills and many more!

WHY DO WE WANT ENGINEERS?



DIFFERENT KINDS OF ENGINEERS

Computer

Software

Mechanical

Aircraft

Biological

Chemical

Project

Systems

ENGINEERING EXERCISE - BREAKDOWN THE PROBLEM

WHAT ARE THE 3 MAJOR THINGS THAT MAKE A DRONE SYSTEM?







(WHAT'S NEEDED TO SUPPORT THE DRONE?)

ENGINEERING EXERCISE - BREAKDOWN THE PROBLEM

MODERN <u>AUTONOMOUS</u> DRONE SYSTEMS



AUTONOMOUS DRONE TRAINING

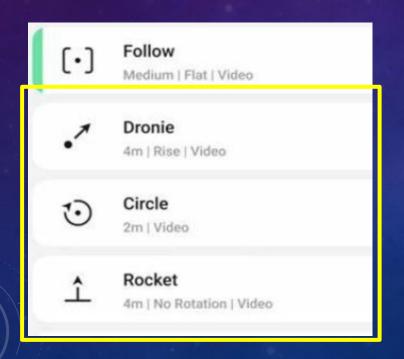
Intelligent Flight Modes

- Dronie
- Circle
- Rocket



AUTONOMOUS DRONE TRAINING

- 1. PRESS TO SELECT INTELLIGENT FLIGHT MODE
- 2. FACE DRONE AND HOLD BUTTON TO TAKEOFF COUNTDOWN

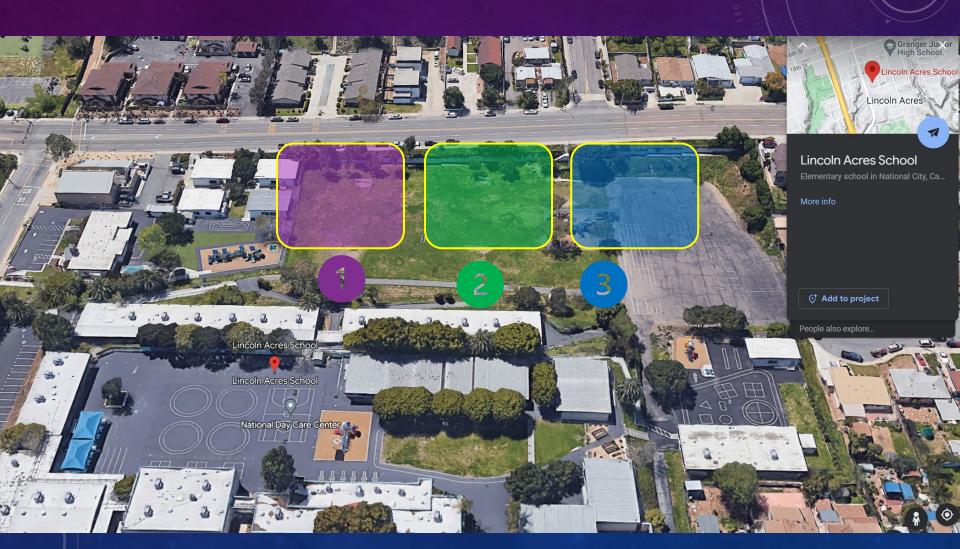




- 3. PALM TAKEOFF
- 4. PALM LANDING

PRE-FLIGHT GUIDELINES

- 3 FLIGHT GROUPS, STAY IN DESIGNATED AREAS



LET'S FLY!

PART 1: FLIGHT TRAINING

- DRONIE
- CIRCLE
- ROCKET

PART 2: SKILLS TEST

- FOLLOW RELAY

Questions?