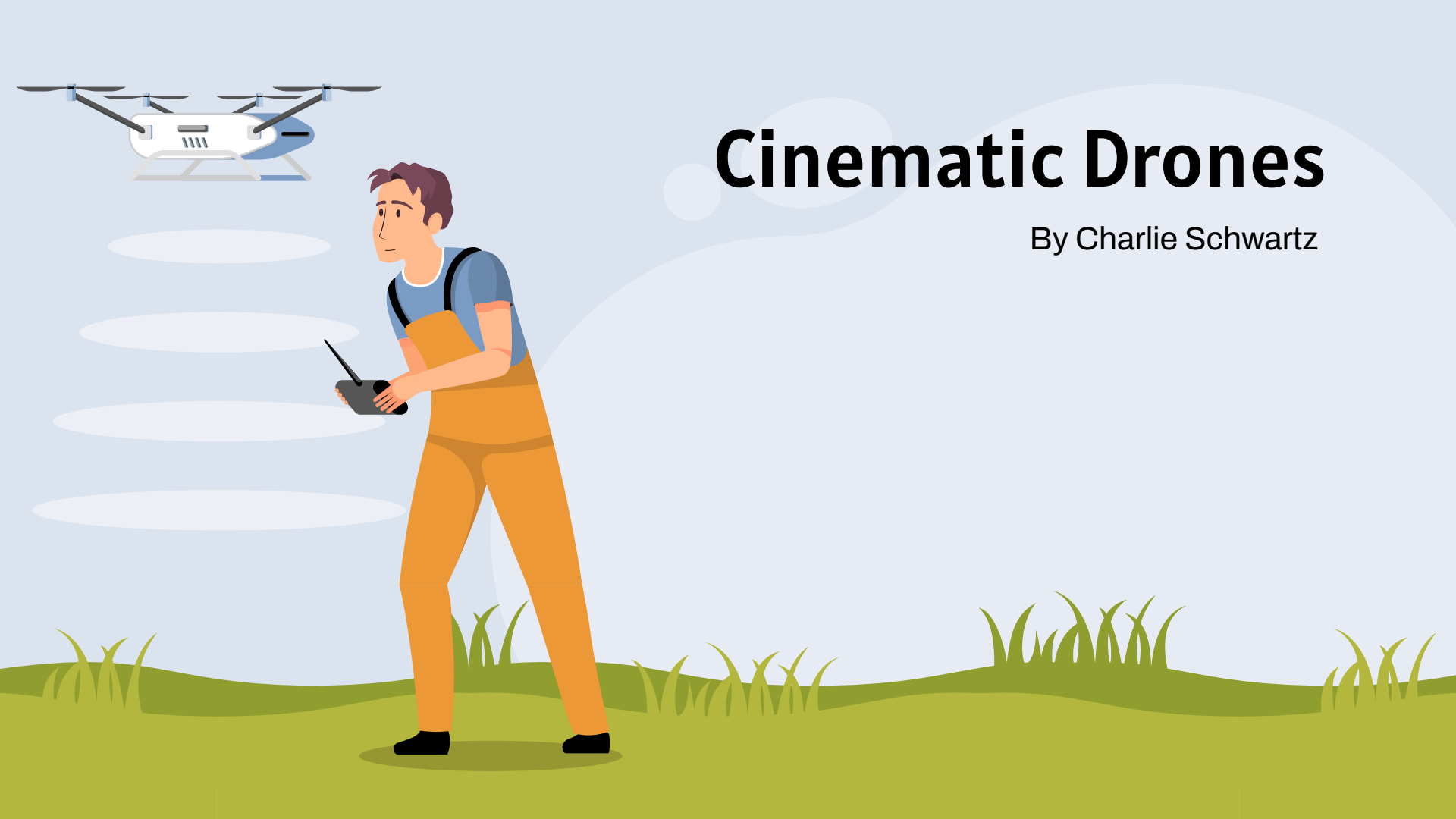

Cinematic Drones

By Charlie Schwartz

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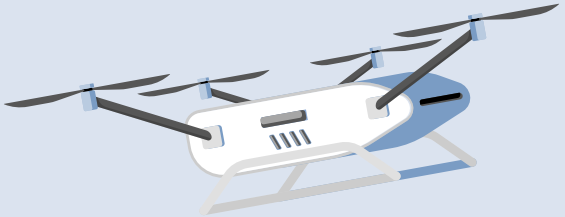
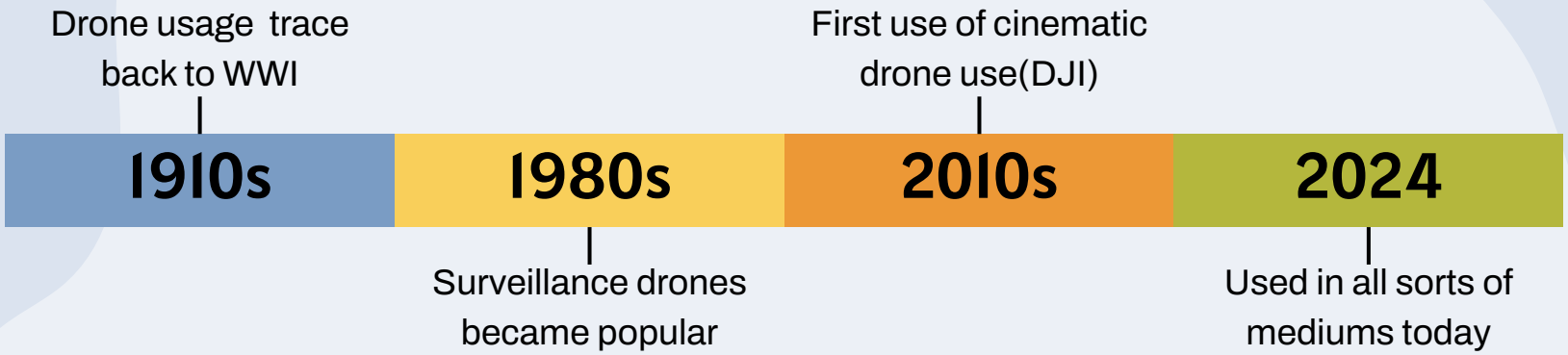
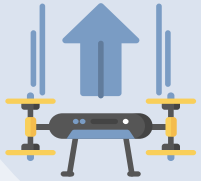


01 History of Drones

Timeline: Drones





02 How drones can be used

Why are drones are so useful?

- They give access to all kinds of shots
- They are very cost effective relative to other tools used in the film industry
- Drones can give unique perspectives that nothing else can give
- They reduce the need for extreme measures to be taken improving safety
- One of the leading innovations in the film industry today

What shots can be created?

Hint: The opportunities are really endless

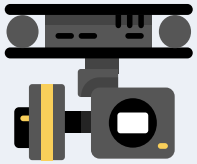
- Approach
- Reveal
- Pull away
- Zipline (Zoom in)
- Gentle Rise (Bird Eye)
- Fly-By
- Orbit/Strafe (360°)
- Weave
- Establishing shot (Griffiths pattern)
- Over the shoulder
- Close up
- Chase scene
- Dolly
- Pan
- Tilt

Mike Abela

Profesional Cinematographer

Words of wisdom:

- **Don’t overuse it, a drone shot should have a specific purpose**
- It's a really good way to establish locations
- When you are flying a shot from 300 feet up, it can be useful, but much of the time you are missing a lot of detail, and some of the best shots are below 50 feet
- It can get shots that nothing else can do, so take advantage of that
- Drones are a way to bring high production value if used in the right way
- You still have to apply cinematographer techniques to make something look good
- “You as a high school student have the capability of getting the same shot as a $50,000 helicopter”



03 Freestyle's Drone

03 Freestyle’s Drone- Mavic 3 PRO

Aircraft

Max Flight Time: 43 mins
Max Speed:21 m/s
Internal Storage: 8gb + Micro SD card*
Max Transmission Distance :1.5-15 km depending on obstruction
GPS tracking

03 Freestyle’s Drone- Mavic 3 PRO

Camera

Camera 1: Hasselblad Camera
FOV: 84°=24 mm-Widest (1-3x)
Camera 2: Medium Tele Camera
FOV: 35°= 70mm - Medium (3-7x)
Camera 3: Tele Camera
FOV: 15°= 166mm - Closest (7-28x)

ISO-100-12800 (including night mode)

03 Freestyle's Drone- Mavic 3 PRO

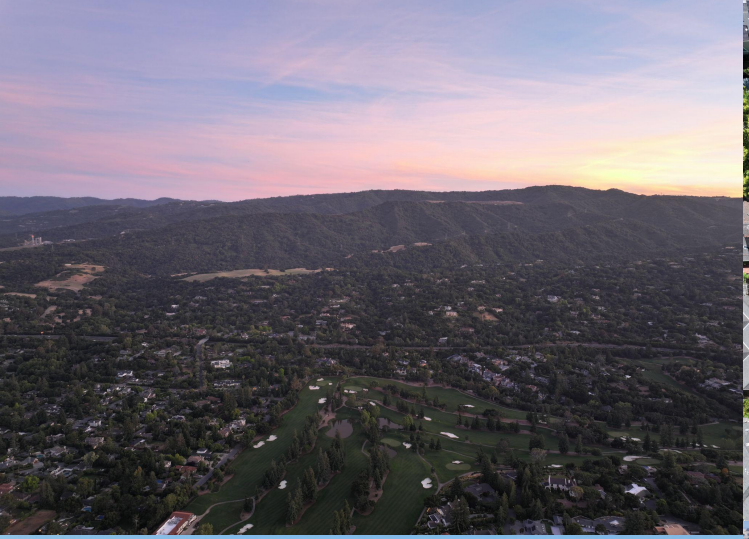
Remote Control/Gimbal

Gimbal can allow access for:
Tilt (-140° to 50°)
Roll (-50° to 50°)
Pan (-23°-23°)

Controller allows for:
Steering control
Elevation change
Rotation control

Modes-
Sport- More responsive
Normal- Default settings
Cinematic- Less responsive/slower

04 Final Project






What I would do next time...

- **USE A GOOD SD CARD**
- **MORE BATTERIES**
- **Plan out cool places to go outside of MVLA area**
- **Figure out regulations for where I plan to go**
- **Figure out all of the camera features for the freestyle drone**