

Birdcall

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The Birdwatchers

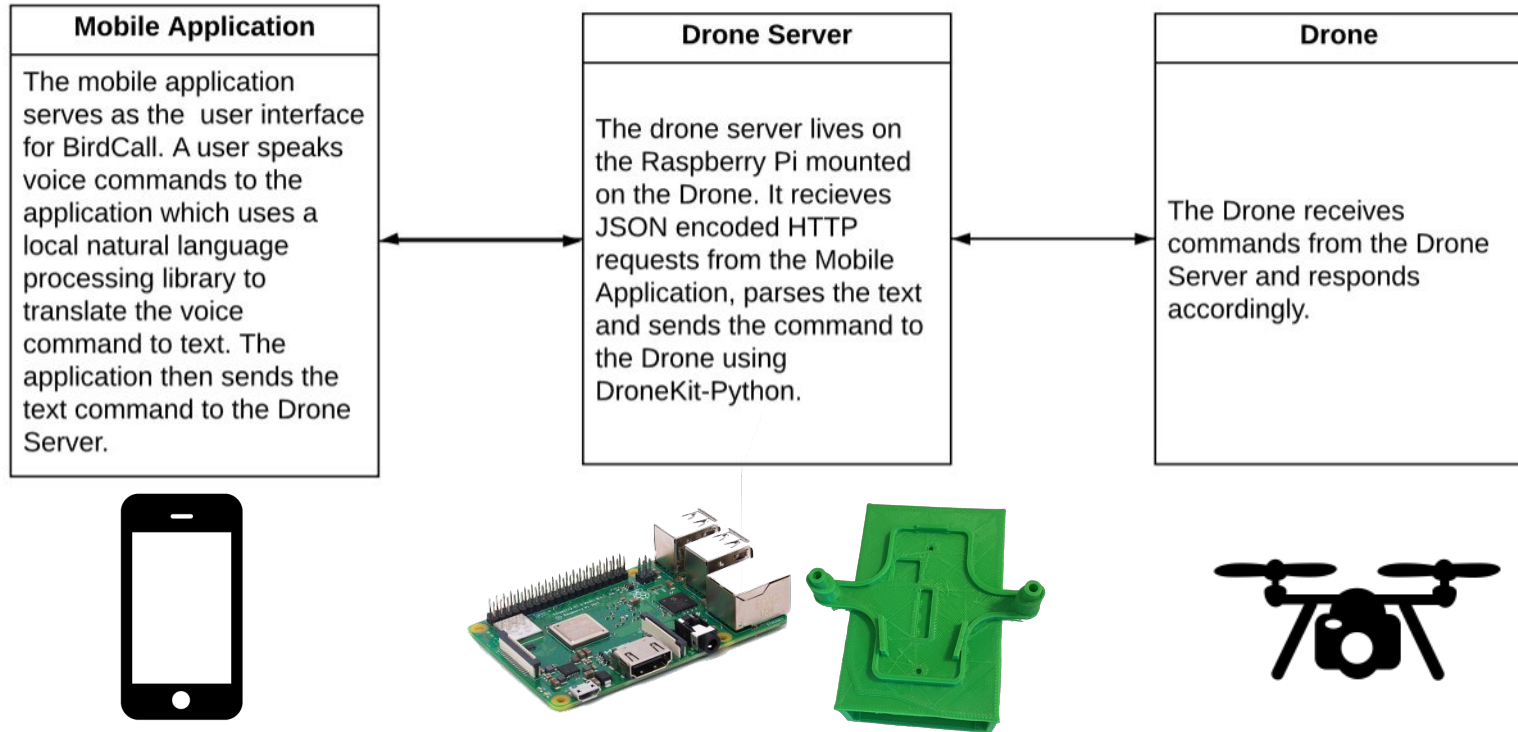


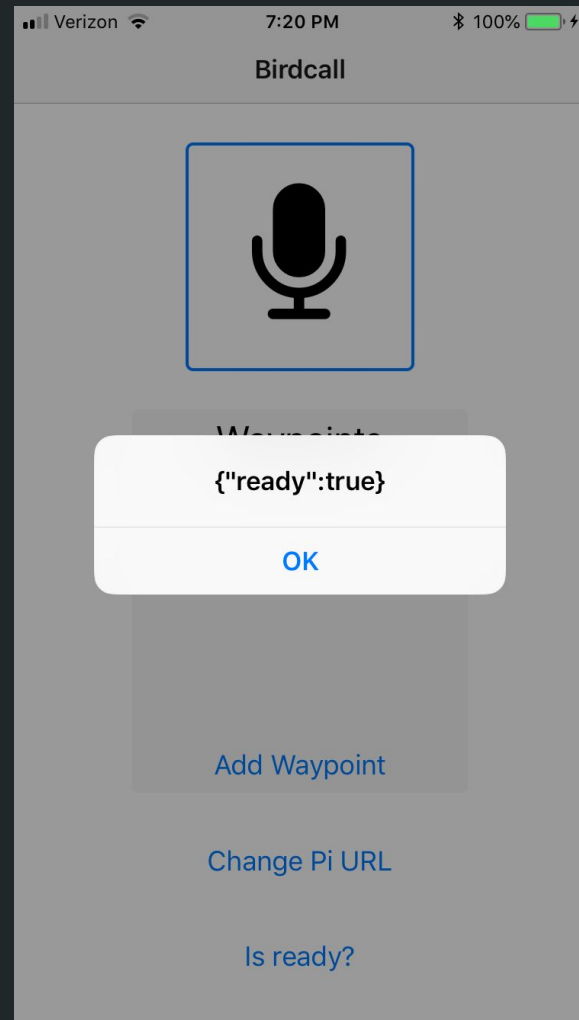
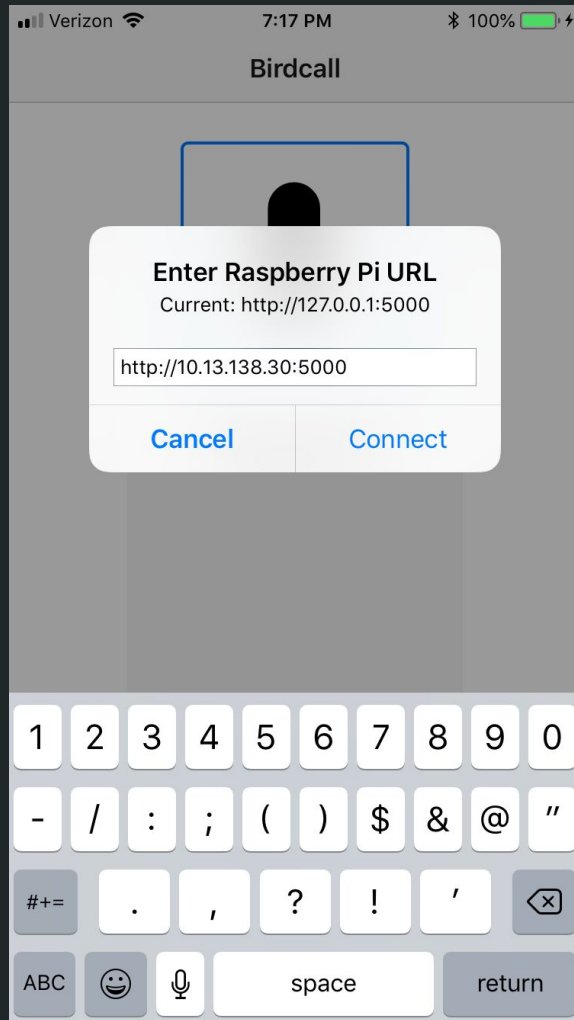
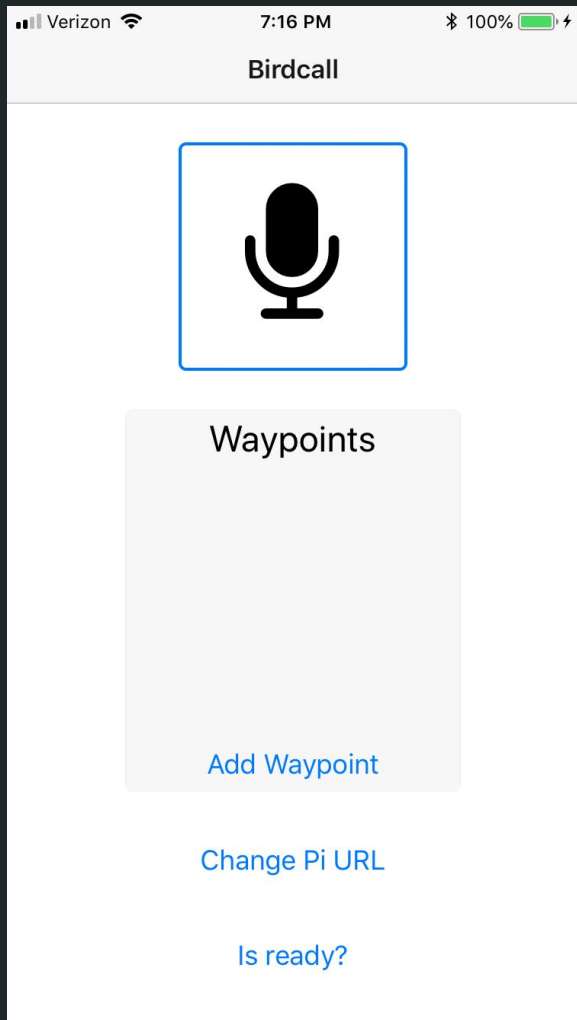
Project Description

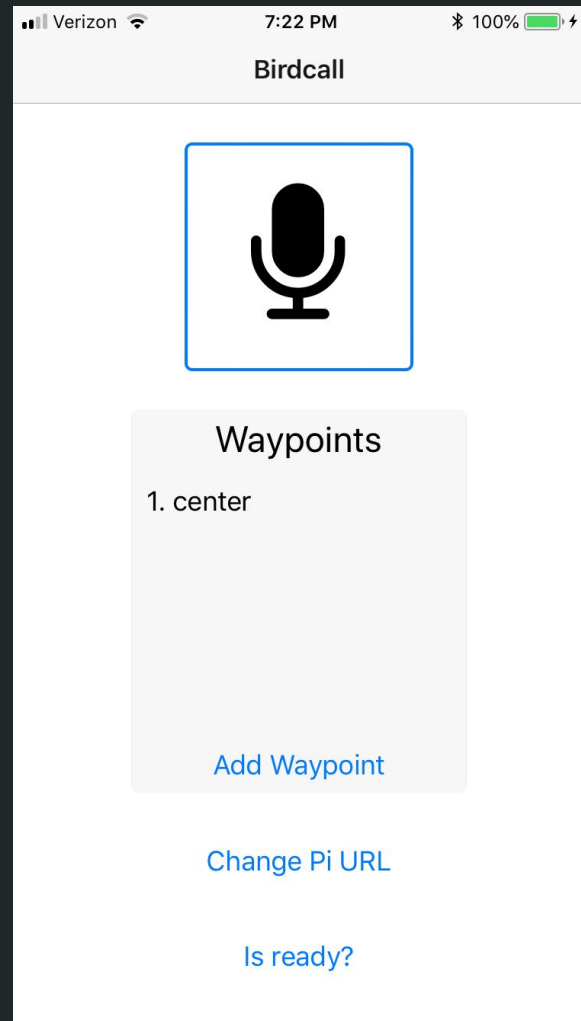
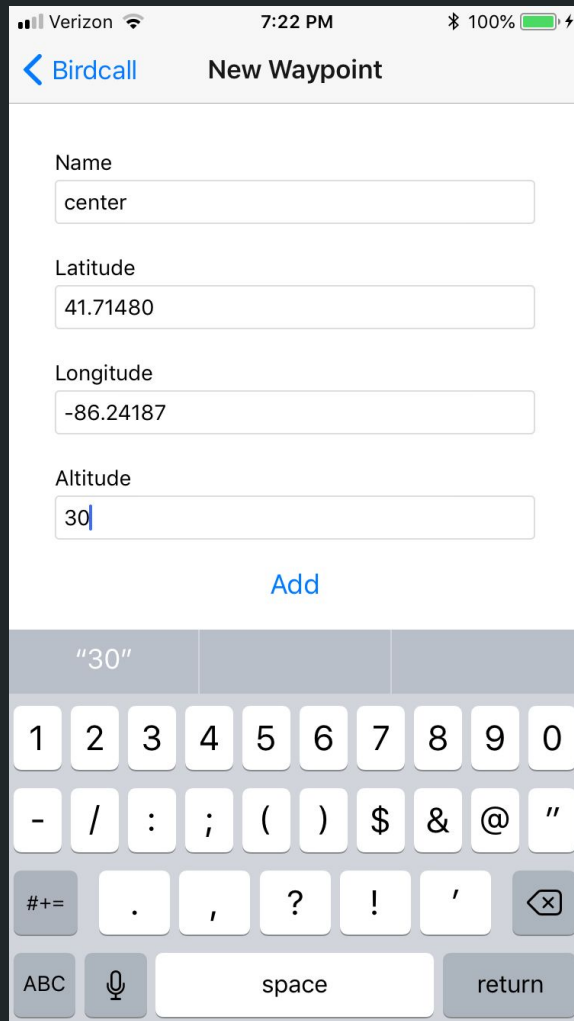
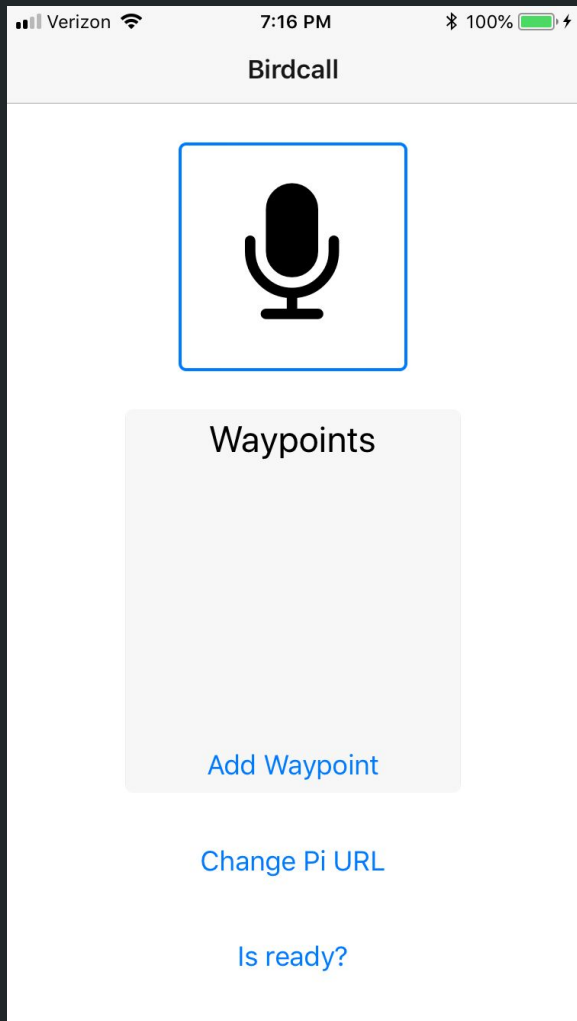
Birdcall is a mobile phone application that enables the user to control their drone using their voice. The user will speak commands into the app, which will communicate with an onboard Raspberry Pi to send commands to the drone. The user will be able to set up waypoints through an on screen UI, since it would be cumbersome to speak coordinates.

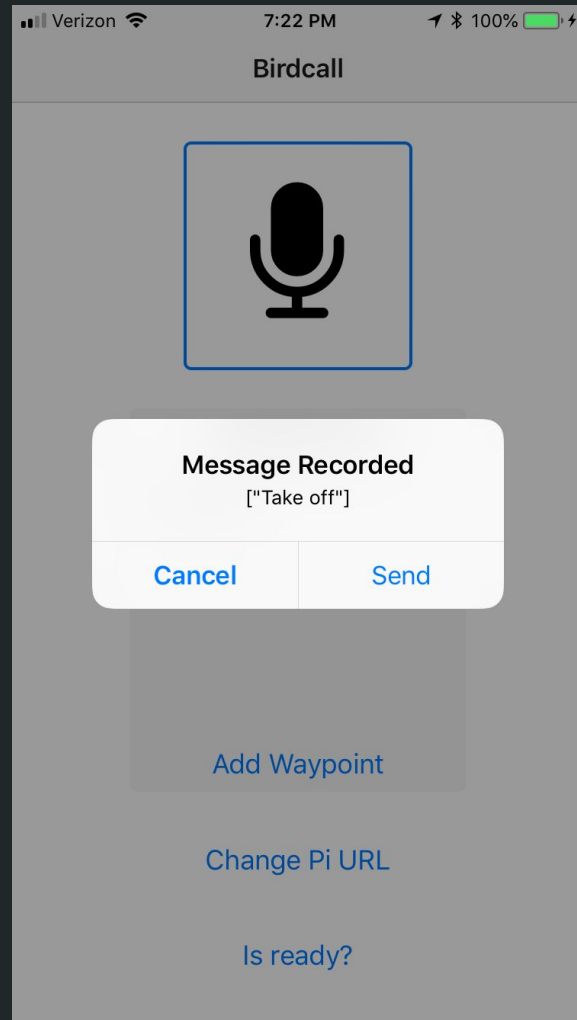
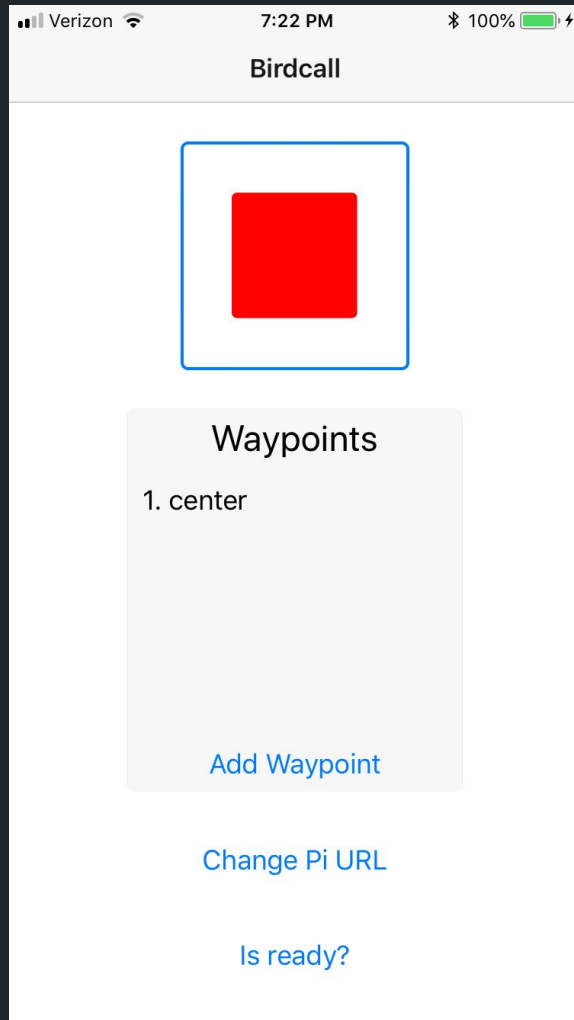
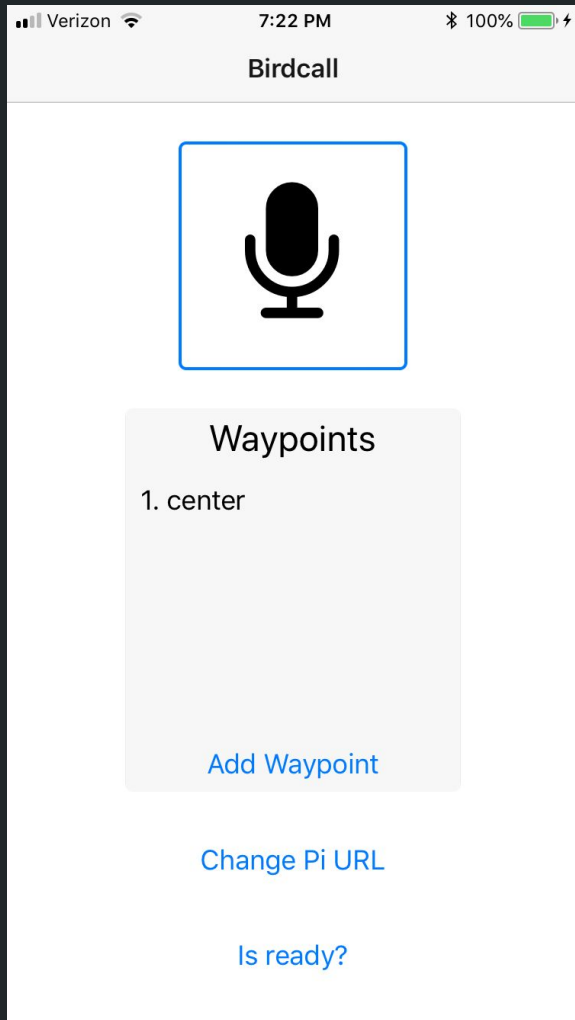


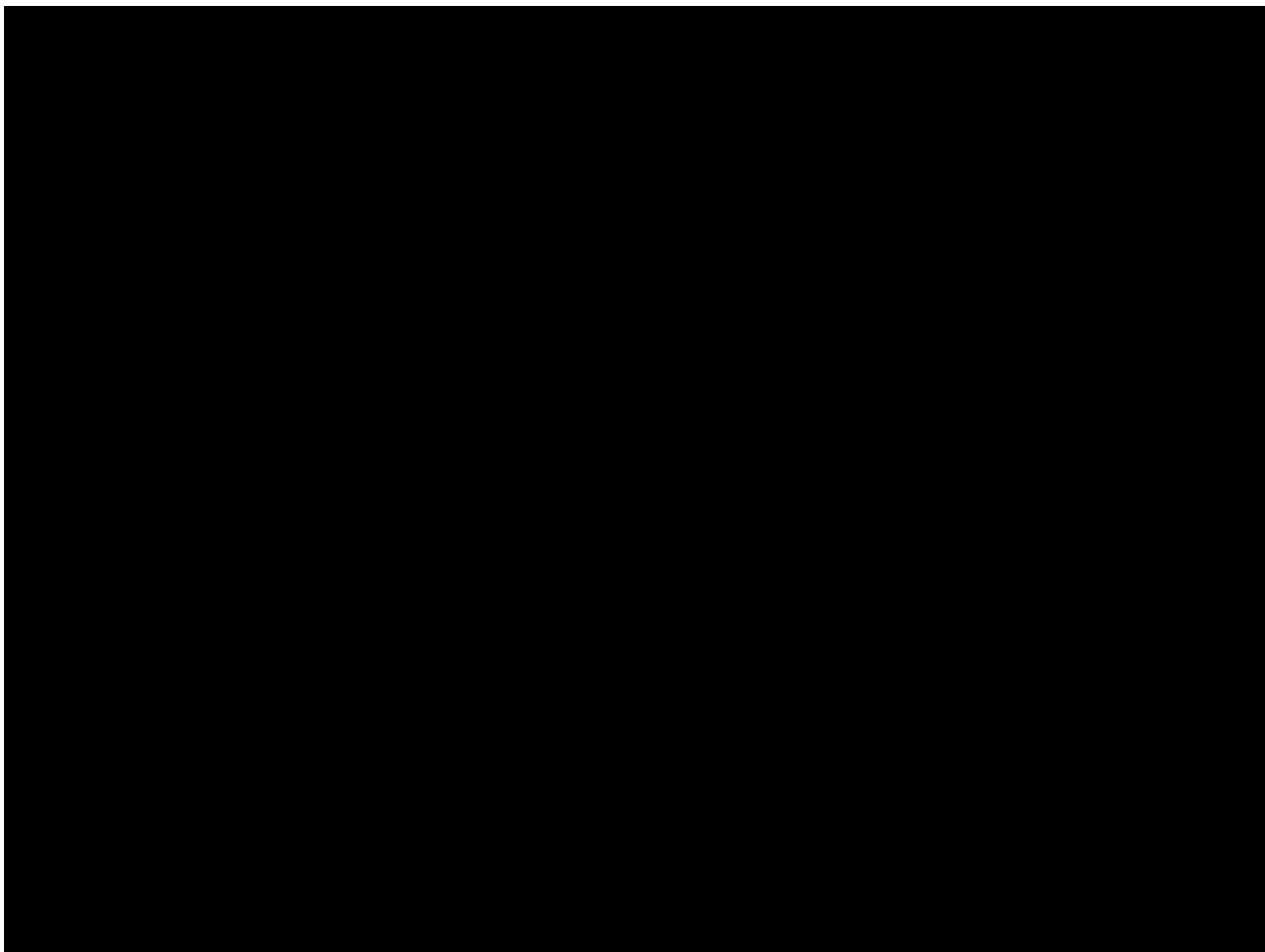
System Overview











Challenges

Drones are inconsistent, hard to diagnose issues

Building hardware solutions

Synchronizing communication between the iPhone, Pi, and Drone

Real World Applications

Drone Photography/Videography

Firefighting

Managing drone fleets